



Tantalos Waste Disposal Site

Site Number 8-50-004

Operable Unit No. 1 (OU-1)

Operable Unit No. 2 (OU-2)



Periodic Review Report and Combined Annual Report No. 12

July 2023 – June 2024

Project 4243466

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Prepared for:

Seneca Meadows, Inc.

1786 Salcman Road

Waterloo, New York 13165



REPORT CERTIFICATION

**Tantalo Waste Disposal Site
Seneca Falls, New York
Site Number 8-50-004**

**Periodic Review Report and Combined Annual Report No. 12
for
Operable Unit Nos. 1 and 2**

July 2023 - June 2024

The material and data in this report were prepared under the supervision and direction of the undersigned.

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1 INTRODUCTION

The Tantalo site is located in the Town of Seneca Falls, Seneca County, New York approximately one-mile northeast of the Village of Waterloo, as shown on Figure 1-1. The site is contained within an approximate 898-acre area of land owned by Seneca Meadows, Inc. (SMI), on which a currently permitted 6 NYCRR Part 360 sanitary landfill is operated. The Part 360 landfill property is contained within total SMI land holdings of approximately 2400 acres. The Tantalo site is approximately 26 acres and is surrounded by SMI property. The site, originally classified as a Class 2 inactive hazardous waste site, was reclassified in May 2009, by the New York State Department of Environmental Conservation (NYSDEC) to Class 4 on the New York State Registry of Inactive Hazardous Waste Sites because the site no longer poses a significant threat to public health or the environment following implementation of the remedy. The site is currently in the operations, maintenance, and monitoring phase.

The NYSDEC divided the Tantalo site into two operable units as follows:

- Operable Unit No. 1 (OU-1) – deals with the waste disposal site area, the remedy for which included a cap, leachate/groundwater collection system, gas venting system, cutoff wall, and waste consolidation along with other supporting activities (e.g., access road relocation, drainage controls, etc.), and deed restrictions.
- Operable Unit No. 2 (OU-2) – deals with bedrock groundwater

The NYSDEC issued a Record of Decision (ROD) for OU-1 in March 1998. OU-1 addressed the landfill and overburden groundwater, and the remedial actions identified in the ROD and subsequent design documents were completed under a Consent Order dated August 28, 2003 (Index No. B8-0043-84-09A). The NYSDEC deemed the construction of OU-1 complete as of August 9, 2007 and as noted above, reclassified the site as a Class 4 site in May 2009.

In addition to the above, in a letter dated November 16, 2009, the NYSDEC also requested the completion of a Periodic Review Report under the Site Management provisions of 6 NYCRR Part 375. The Periodic Review Report was completed by SMI, along with a certification, dated January 4, 2010, which indicated that the Site Management requirements are being met. Since the initial Periodic Review Report submittal, in accordance with NYSDEC correspondence, separate Periodic Review Reports have been submitted annually from 2012 through 2023, with each report including a certification indicating that the Site Management requirements are being met. In electronic mail correspondence dated November 15, 2016, the NYSDEC

requested that the Periodic Review Reports and certifications be submitted jointly with the Combined Annual Report that is prepared for OU-1 and OU-2.

The ROD for OU-2 was issued in March 2001. OU-2 addresses the bedrock groundwater beneath the site and the surrounding areas to the west, south, and east of the site. The ROD-selected remedy involves enhanced natural bioremediation by the injection of electron donor materials into the bedrock aquifer to enhance the naturally occurring biodegradation of TCE and its degradation products through reductive dechlorination. In addition, the ROD calls for a groundwater monitoring program to assess the performance of the remedy as well as provide sentinel wells for perimeter monitoring.

During the time period from March 2006 through November 2007, SMI implemented the remedy for OU-2. Injection and monitoring wells were installed starting in March 2006. Following completion and development of the installed wells, during the period from May through November 2007 remedy implementation consisted of two injections of fast-acting electron donor material (sodium lactate) and one injection of long-acting electron donor material (HRC-A®). Following completion of the electron donor injection and initial performance monitoring, the *Remedy Completion Report, Tantalito Site Operable Unit No. 2 (OU-2)* was submitted to the NYSDEC in June 2008 and was approved on August 11, 2008. Also, because of the presence of volatile organic compounds in groundwater, the NYSDEC requested the completion of a soil vapor, sub-slab, and indoor air monitoring program. SMI implemented the soil vapor, sub-slab, and indoor air monitoring program from January 2006 through November 2007, culminating in a final report issued to the NYSDEC and the NYSDOH in November 2007. The NYSDEC approved this final report in a letter dated December 11, 2007 and with that approval stated that no further investigation of the potential for soil vapor intrusion would be necessary.

Three long-acting electron donor injection events have been performed subsequent to the initial remedy completion. These three subsequent events may be summarized as follows:

- On November 9 and 10, 2010, a long-acting electron donor (i.e., 3-D Microemulsion (3DMe®) manufactured by Regenesys) was injected at wells IN-5S and IN-7S in a manner similar to the original injection event for initial implementation of the remedial design. The rationale for the second injection event was based on attempting to further enhance biological activity to the area west/southwest of the Tantalito site (i.e., T-25 and T-26 well cluster area). The value of further enhancement was indicated by the apparent accumulation of TCE degradation products and/or incomplete reductive dechlorination in this down-gradient area.

- On September 24, 2013 long-acting electron donor (3DMe®) was injected in wells IN-7S and the T-26 monitoring well cluster, and in IN-2D and IN-6S. In addition, because of the small casing diameter at the T-26 monitoring well cluster, the electron donor injection at this location was performed as four separate events to reduce dose size correspondingly, with additional injections on November 11, 2013 and May 7 and August 20, 2014. Similar to the second injection event, the rationale for injection at the IN-7S and T-26 wells was to further enhance biological activity in the down-gradient area west/southwest of the site. The rationale for injection in wells IN-2D and IN-6S was to further enhance the reductive dechlorination process in the area historically mapped with some of the highest concentrations of CVOCs.

During the period from January 15, 2024 through March 13, 2024 an additional round of injections took place consistent with a work plan approved by the Department on November 14, 2023. The work plan was developed considering that the proposed SMI Valley Infill project would cover some former injection wells and SMI agreed to enhancing biological activity prior to the proposed development. Injection well IN-6 was cleared and new bedrock injection wells IN-8, IN-9 and IN-10 were installed. Based on an assessment of groundwater geochemistry, constituent concentrations and bacterial populations, a long-acting electron donor mixture of emulsified vegetable oil (SRS® by Terra Systems), sodium bicarbonate (a pH buffer) and a bacterial inoculant was injected into injection wells IN-6S, IN-7S, IN-8S, IN-9S and IN-10S and monitoring well T-25DB to enhance existing methanotrophic bacteria populations and enhance reductive dechlorination.

A Final Operations, Maintenance and Monitoring (OMM) Plan for Operable Unit No. 1 (OU-1), dated December 2007, was approved by the NYSDEC on January 2, 2008, and at that time the site entered the operations, maintenance, and monitoring (OMM) phase for OU-1. The final OMM Plan outlined the operation, maintenance and monitoring procedures and activities that are to be implemented at the Tantalio site following completion of remedy construction for OU-1.

Completion of the OU-2 remedy was followed by the preparation of a *Final Operations, Maintenance and Monitoring (OMM) Plan for Operable Unit No. 2 (OU-2)*, dated July 2008, which was approved by the NYSDEC on August 11, 2008, and at that time the site entered the operations, maintenance, and monitoring (OMM) phase for OU-2. The final OMM Plan outlined the operation, maintenance and monitoring procedures and activities for the Tantalio site following completion of remedy implementation for OU-2. An addendum to the OMM Plans for both OU-1 and OU-2 was approved by the NYSDEC to include sampling for 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) at select wells within the program. Results of the PFAS sampling are presented in Table 5-8.

Based on quarterly monitoring results that have been performed since the inception of the OU-2 remedy, SMI requested a reduction in the OU-2 groundwater monitoring frequency to semi-annual to coincide with OU-1 monitoring activities and recommended that reporting for both operable units be consolidated into one Combined Annual Report. On April 25, 2013, the NYSDEC approved this request. This report represents the eleventh year of OMM reporting at the site.

In accordance with the approved final OMM plans and the NYSDEC approval for a combined periodic review and annual report, this report has been prepared to summarize the operation and maintenance activities related to the Tantalio OU-1 and OU-2 remedies that have occurred during the period from July 1, 2023 to June 30, 2024; and to present the results of groundwater, leachate, and quarterly gas monitoring performed during the reporting period; to document compliance with the site management plans; and certify the continued performance and effectiveness of the remedies.

This report has been organized as follows:

- Section 1 – Introduction
- Section 2 – Periodic Review Compliance
- Section 3 – Summary of Operations, Maintenance and Monitoring
- Section 4 – Operations and Maintenance
- Section 5 – Groundwater Monitoring
- Section 6 – Conclusions and Recommendations

Relevant materials are also appended for reference.

2 PERIODIC REVIEW COMPLIANCE

In accordance with the NYSDEC *Technical Guidance for Site Investigation and Remediation* (DER-10), Section 6.3, periodic review is performed to document and certify the following:

- Institutional and engineering controls are in place, performing properly and remain effective;
- The site monitoring plan is being implemented; and
- Operation and maintenance activities are being conducted, as needed, to maintain the engineering controls.

This section presents a summary of the provisions in DER-10 for periodic review and how the documentation in this report addresses each provision, followed by the overall conclusions and recommendations from the periodic review process. Specifically, the documentation contained within this report as relates to the specific provisions of DER-10 (DER-10 citations shown in parentheses), is as follows:

- Performance and Effectiveness (6.3(b)2.i.)
 - See Section 6, Conclusions and Recommendations, of this report. Performance and effectiveness of the remedy are being maintained.
- New Conclusions or Observations (6.3(b)2.ii.)
 - Concentrations of cis-1,2 dichloroethene have been increasing within downgradient monitoring well T-39SB, with concentrations over the last four reporting periods ranging between 7.2 and 29 ug/l. See Sections 5.2.2 and 6 of this report for additional details.
- Recommendations for Change (6.3(b)2.iii).
- New downgradient monitoring wells T-40SB and T-40DB were installed as sentinel wells downgradient from monitoring well T-39SB. Groundwater monitoring will continue to assess the effect of electron donor injections conducted during January and March 2024. (6.3(b)4.ii.)

- Leachate collection trend plots and analytical data are presented in Section 5.1.2, Tables 5-3 and 5-4, and Figures 5-2, and 5-3 of this Report.
- Routine Maintenance and Inspection (6.3(b)4.iii and iv.)
 - See Section 4 of this report. Maintenance and inspections continue per the approved site management plans and are effective.
- Performance Monitoring (6.3(b)4.v.)
 - See Section 5 of this report. Groundwater monitoring is being performed per the approved monitoring plans and demonstrates the continued effectiveness of the remediation.
- Optimization and Performance Problem Resolution (6.3(b)4.vi. and vii.)
 - T0001 flow has been diverted to an adjacent leachate collection system (WEX Stage 6) in preparation for relocation to the approved gravity drain below stage 5. Field Data (6.3(b)4.viii.)
 - See Appendices A (site inspection reports), B (laboratory reports), and C (detected parameters monitoring data summary) of this report.
- Figures, Well and Sampling Locations, Groundwater Plume (6.3(b)5.i. and ii.)
 - See Figures 5-1 and 5-4 through 5-11 of this report, which illustrate the plume and performance monitoring data.
- Change of Use Documentation (6.3(b)6).
 - There has been no change of use since the previous Periodic Review Report (PRR) submitted in September 2023, and therefore, no documentation is required.
- Recommendations for Modification of ECs or ICs (6.3(b)7.)
 - None, see Institutional (IC) and Engineering Controls (EC) Certification Form included as Appendix D indicating continued effectiveness of ECs and ICs. Some system modifications (e.g., minor drainage changes) have been made for the adjacent Part 360 permitted landfill which do not affect the overall form and function of the ECs, and are being handled separately with the NYSDEC, Division of Materials Management under the Part 360 permit program.

- Cumulative Data Summary Tables and/or Graphical Representations of constituents of concern (6.3(b)8.)
 - See Section 5, Tables 5-1, 5-3, 5-4, 5-6 and 5-7, Figures 5-4 through 5-11, and Appendix C of this Report, which collectively document groundwater and leachate quality, and leachate quantities being handled.
- Inspection Reports (6.3(b)10.)
 - See Appendix A of this Report for inspection reports.

Based on the foregoing summary of compliance of the site management activities being performed with the requirements for periodic review, the following overall conclusions and recommendations result:

- Compliance with Site Management Plans

The controlling documents for the site are the approved *Operation, Maintenance, and Monitoring Plans* for Operable Unit Nos. 1 and 2. The requirements of these plans have been met during the reporting period of this PRR and Combined Annual Report. As a requirement of the Records of Decision for the site, the existing *Declaration of Covenants and Restrictions* on file at the Seneca County Clerk's office remains in effect and restricts groundwater use, both in the overburden and bedrock, in the area around the 26-acre disposal site.

- Performance and Effectiveness of the Remedies:

The remedy performance monitoring data collected to date and during the reporting period indicate that the remedies implemented for both operable units are performing as expected and are effective and protective. Leachate generation rates within the Tantalo site are indicative of the engineering control (cap) performing as expected as generation rates are asymptotically declining. The data do show an increase in leachate volumes beginning in 2017, largely a result of localized increases in infiltration due to construction at the adjacent Part 360 permitted landfill which resulted in some incremental groundwater collection. As noted in subsequent sections of this report, the grades around the north end of Tantalo were modified to improve the management of stormwater off the cap to collected and drain away, minimizing future infiltration. This construction should assist in lowering leachate volumes in future years and a return to the asymptotically declining volumes. On-going work on the adjacent Part 360 Landfill may continue to cause variations in the volume of leachate generated for Tantalo. The volumes will continue to be monitored. Landfill

gas is not impacting buildings adjacent to the site. Conditions conducive to biodegradation of CVOCs in the bedrock groundwater have been enhanced/maintained. Groundwater monitoring data indicate that progress is being made towards the remediation goals set forth in the Records of Decision (ROD). The OU-2 remedy has been able to maintain biological degradation of constituents in the bedrock groundwater as conditions have likely changed as a result of the successful OU-1 remedy implementation (i.e., potential reduction of electron donors as a result of the reduction in mass flux caused by the cap and leachate/groundwater collection systems). Groundwater CVOC concentrations remain consistent or decreasing in both the overburden and bedrock groundwater, with the exception of monitoring well T-39SB where concentrations of cis- and trans-1,2-DCE (a TCE breakdown product) have recently increased. The increase in 1,2-DCE concentrations at this location is likely the result of enhanced reductive dechlorination induced by the injection of electron donor material and bacterial inoculant upgradient from this location during January and March of 2024.

- Recommendations and Future Periodic Review Report Submittals:

The recommendations for the site are to continue the current maintenance and monitoring programs in accordance with the governing Site Management Plans and maintain the existing engineering and institutional controls. Based on the NYSDEC's letter of November 14, 2016, approving the 2016 OU-1 and OU-2 Combined Annual Report, and a follow up electronic mail message from the NYSDEC dated November 15, 2016, the OU-1 and OU-2 Combined Annual Report, periodic review report, and IC/EC certifications will continue to be submitted annually at the same time.

Environmental monitoring data will continue to be evaluated as it is received and if additional actions are deemed appropriate during the intervening time period, separate recommendations will be prepared for submittal to the NYSDEC.

The Institutional and Engineering Controls Certification Form is attached as Appendix D.

3 SUMMARY OF OPERATIONS, MAINTENANCE, AND MONITORING

3.1 Operable Unit No. 1

The operations, maintenance and monitoring activities undertaken during the reporting period may be summarized as follows:

Operations:

- The leachate collection sumps at the main wet well were continuously operated, except for occasional downtime for maintenance activities.
- The landfill gas extraction system was continuously operated during the reporting period as it is connected to the permitted SMI landfill gas collection and control system.
- The stormwater management structures were maintained in operating condition (i.e., these systems do not require active operations).

Maintenance:

- Monthly inspections were performed in accordance with the OMM Plan.
- Maintenance was performed on the leachate, gas, and surface water controls, and the final cover (e.g., rivulet repair) as necessary to maintain functionality and integrity of these components. The site is currently largely self-sustaining, and little maintenance was necessary during the reporting period.

Monitoring:

- Groundwater, leachate, and gas monitoring were performed in accordance with the OMM Plan.

Other than leachate, no materials were disposed as a result of site OMM activities.

Further discussion of the various OMM activities is provided in the sections that follow. The work performed during the reporting period indicates that the OU-1 remedy is being properly operated and maintained. The environmental monitoring data are generally consistent with expectations regarding improvement in groundwater quality and no

evidence of lateral migration of landfill gas, as is discussed in more detail in the following sections.

3.2 Operable Unit No. 2

The operations, maintenance and monitoring activities undertaken during the reporting period may be summarized as follows:

Operations:

- During the period from January 15, 2024 through March 13, 2024 Cornerstone oversaw the installation of new sentinel monitoring wells and injection wells and performed additional electron donor injections consistent with a work plan approved by the Department on November 14, 2023. The work plan was developed considering that the proposed SMI Valley Infill project would cover some former injection wells and SMI agreed to enhancing biological activity prior to the proposed development.
- Cornerstone mobilized to the site on January 15, 2024 to begin the new well installations alongside drilling subcontractor Parratt Wolff. The scope of work included the cleaning/repair of existing injection well IN-6S and installation of a new injection/monitoring well identified as IN-8S located adjacent to pond S-1. In addition, based on an observed increase in 1,2-DCE concentrations within monitoring well T-39SB, new bedrock monitoring wells T-40SB and T-40DB were installed approximately 500 feet downgradient from T-39SB along the downgradient property boundary as a conservative measure. Due to scheduling conflicts, Parratt Wolff was unable to mobilize a field crew to the site until January 17, 2024.

All wells were constructed with schedule 40 PVC risers, 0.01-inch (10 slot) screens, and were completed with a 3-foot steel protective casing above grade. Each well was successfully developed by Parratt Wolff following installation. All well installations were completed by January 26, 2024. below).

Well construction details are outlined in the table below:

Table 1: New Well Construction Details

Well ID	Well Diameter	Screened Interval	Terminal Depth	Depth to Bedrock (bgs)	Completion Date
IN-8S	4"	41'-51'	51'	36'	January 18, 2024
T-40SB	2"	49'-54'	54'	49'	January 22, 2024
T-40DB	2"	74'-84'	84'	51'	January 25, 2024

Electron Donor Injections

- Cornerstone mobilized to the site on January 29, 2024, to oversee the electron donor injections conducted by Parratt Wolff. Based on the review of previous CVOC concentrations reported during the most recent round of groundwater monitoring, Cornerstone proposed to inject a total of 3,000 gallons of SRS® emulsified vegetable oil (EVO) provided by Terra Systems, Inc. into monitoring/injection wells IN-6S, IN-7S, IN-8S, SE-100-SBR and T-25DB. Injection well locations are shown on Figure 5-4 and/or 5-5. In addition, based on bacterial assays conducted by Microbial Insights®, Cornerstone proposed to augment the existing population of Dehalococcoides bacterial species available for reductive dechlorination through the injection of Terra Systems TSI-DC® microbial bioaugmentation cultures. Terra Systems also recommended the addition of sodium bicarbonate and sodium ascorbate to further condition the water for the bioaugmentation culture. The bioaugmentation cultures were prepared and directly injected into the injection wells by Parratt Wolff and were followed by the SRS® EVO solution, which was diluted at a ratio of one part SRS solution to four parts water. Cornerstone coordinated and tracked total volumes of material injected into each well during this event as outlined in the table below:

Table 2: Electron Donor Solution Injection Volumes

Well ID	Well Diameter	Total Amount of Injected Solution (gallons)	Flow Rate (gpm)	Injection Dates
IN-6S *	6"	500	6.5	Feb. 2, 2024
IN-7S *	6"	2,775	12	Jan. 31 & Feb. 1, 2024
IN-8S	4"	1,250	5 increased to 10 when daylighting	Jan. 29 & 30, 2024
T-25DB	2"	125	5**	Jan. 30 & 31, 2024
SE-100-SBR	2"	600	5**	Feb. 2, 2024

* Open bedrock wells, no PVC casings

** Estimated based on injection duration and volume injected

- On January 30, 2024, during the injection process of IN-8S, "daylighting" effects were seen by Cornerstone personnel. It was noted that injection material was becoming visible on the surface of pond S-1 adjacent to the shoreline at this location. The injection of SRS solution was immediately discontinued, and SMI was notified of the issue. SMI responded by immediately placing an oil boom around the area of daylighted SRS solution. SMI subsequently mobilized a vacuum truck to remove any residual electron donor material. NYSDEC Spill Case No. 2308694 was opened due to

the nature of the injection material (emulsified vegetable oil) but was successfully cleaned up and closed by NYSDEC one day later (January 31, 2024).

- It was not possible to inject the entire volume of electron donor material during the initial mobilization due to limits in bedrock secondary porosity at some locations; however, the bioaugmentation culture was injected in all wells as proposed. A second round of injections was, therefore, conducted to complete the injection of electron donor material, as detailed further below.
- Cornerstone mobilized to the site on March 4, 2024 to begin the new well installations alongside drilling subcontractor Parratt Wolff. The scope of work included the installation of two new injection wells identified as IN-9S and IN-10S located between monitoring well T-39SB and injection well IN-8S adjacent to the administrative building, respectively. All wells were cased into bedrock with 4" steel casings and were completed with a 3' steel protective casing above grade. Each well was successfully developed by Parratt Wolff following installation and allowed to equilibrate for four days prior to the electron donor injections. All well installations were completed by March 7, 2024. Well construction details are outlined in the table below.

Table 3: New Well Construction Details

Well ID	Well Diameter	Screened Interval	Terminal Depth	Depth to Bedrock (bsg)	Completion Date
IN-9S	4"	0'-43'	56'	43'	March 6, 2024
IN-10S	4"	0'-29'	61.5'	29'	March 6, 2024

- Cornerstone mobilized to the site on March 11, 2024, to continue the electron donor injections that began in January 2024. Final total injection volumes remained the same from the previous proposal, which was to inject 3,000 gallons of SRS® EVO provided by Terra Systems, Inc. into injection wells IN-9S, IN-10S, and IN-6S. The addition of sodium bicarbonate and sodium ascorbate remained the same as well to further condition the water for the injection material, which was diluted at a ratio of one part SRS solution to four parts water. Cornerstone coordinated and tracked total volumes of material injected into each well during this event as outlined in the table below:

Table 4: Electron Donor Solution Injection Volumes

Well ID	Well Diameter	Total Amount of Injected Solution (gallons)	Flow Rate (gpm)	Injection Dates
IN-9S *	4"	3,000	25	Mar. 11, 2024
IN-10S *	4"	3,000	25	Mar. 12, 2024
IN-6S *	6"	250	6.5	Mar. 13, 2024

* Open bedrock wells, no PVC casings

- All injections were successfully completed by March 13, 2024, with Cornerstone and Parratt Wolff mobilizing off-site on March 14, 2024.

Maintenance:

- Inspection of monitoring wells was performed during sampling events.
- Since the electron donor system is not a permanent installation, routine maintenance of the injection system is not required.

Monitoring:

- Routine groundwater sampling and analysis were performed in accordance with the OMM Plan.

Operation, maintenance, and monitoring activities are further discussed in the sections that follow. The work performed during the reporting period indicates that the OU-2 remedy is being properly maintained. The environmental monitoring data are consistent with the expectations regarding groundwater quality and enhanced biodegradation, as is discussed in more detail in the sections that follow.

4 OPERATIONS AND MAINTENANCE

4.1 Operable Unit No. 1

Site operations and maintenance activities for the Tantaló site following the construction phase of the OU-1 remedy include inspection, maintenance, and repairs, as needed, of the following:

- The final cover system;
- The leachate collection system;
- The landfill gas collection system;
- Stormwater management system; and
- Miscellaneous items (site access, security, and environmental monitoring facilities).

Inspections of the Tantaló site were managed by the Tantaló Project Manager with the assistance of SMI personnel and have been performed on a monthly basis in accordance with the OMM Plan.

Copies of site inspection reports are attached as Appendix A, for reference. The SMI inspection reports document the observations of the field personnel and, where appropriate, the need for maintenance and/or repairs and the maintenance actions. Details of the operations and maintenance for each of the above-noted items are provided in the sections that follow. Ongoing inspections continue to indicate that the site is properly maintained.

The construction of landfill cells for the Part 360 permitted landfill occurring to the north of the Tantaló site have cut off drainage to the former Black Brook channel. In order to accommodate this, drainage is being redirected in the east and west channels to the permitted landfill's stormwater management system to the south of the Tantaló site. This change in drainage routing was the subject of a design report and drawings submitted to the NYSDEC in 2013, as part of the ongoing development of the permitted sanitary landfill. This construction at the site was completed during the last reporting period and included the installation of a stormwater swale, new 48-inch culverts and re-routing of the existing wet well leachate lines.

4.1.1 Final Cover System

Site inspections of the final cover system are performed by SMI personnel on a regular basis. Conditions of the final cover system during the reporting period were typical of an effective and well-maintained cap (i.e., well vegetated and stable) with only occasional minor maintenance required.

Routine inspection and maintenance of the final cover focuses on the vegetative layer of the cap. The lower final cover layers do not require routine inspection or maintenance provided the protective vegetative layer maintains its function. Inspections involved observations of the final cover top areas and side slopes and access/service roads for signs of erosion, animal burrows, slope instability, differential settlement or settlement that could result in ponding, and seepage. The inspections have indicated that the final cover system is intact and is in good condition (i.e., vegetation is well established, and only minor rivulet repair has been needed, there are no visible signs of stress to the vegetation, and animal burrow holes were not observed). In addition, site inspections show that the enhanced asphalt cap is also in a good state of repair, and there was no need for maintenance.

There were no observed issues with the access/service roads during the reporting period of this report. The access/service roads were maintained in passable condition.

4.1.2 Leachate Collection System

The Tantalo leachate collection system consists of a perimeter leachate/groundwater collection drain, a barrier installed along the northern boundary of the site, and an interceptor drain for the collection of overburden groundwater from the area adjacent to monitoring well T-15. In addition, condensate from the gas collection trenches drains into the underlying leachate collection system.

Inspections of the leachate collection system involved taking water level measurements in the system cleanouts and comparing them to the liquid levels in the wet wells to assess the potential for blockages in the system. The data are presented with the inspection reports in Appendix A.

As reported in the 2015 through the 2023 Annual Reports, ongoing construction and operation of landfill cells for the Part 360 permitted landfill to the north of the Tantalo site has altered drainage patterns that previously directed flow to the former Black Brook channel. As a result, stormwater is being managed via the east and west channels adjacent to the Tantalo site, which was regraded in 2020. The construction-related conditions and effects on leachate volume are discussed further in Section 5.1.2.

The valving, forcemain connections, and flow meters were inspected for signs of leakage or damage. The inspections indicate that the system components are functioning properly and there are no signs of leakage or damage. In addition, the leachate storage facility is routinely inspected, and copies of inspection reports are included in Appendix A.

4.1.3 Landfill Gas Collection System

The Tantalo landfill gas collection system is tied into an active landfill gas collection and control system that is currently used to manage gas from the permitted solid waste management facility operating on the SMI property. The combined landfill gas is conveyed to power generating equipment or to an enclosed flare for destruction.

Routine maintenance of the gas collection system is limited to inspections of the ground surface above the gas collection system, in conjunction with the final cover inspections, to check for evidence of settlement that could affect the gas collection piping. The vacuum line from the vacuum source to Tantalo that crossed the haul road was replaced in the spring of 2021. The original line had water located in the low spot leading to artificially increased vacuum readings. The table below represents the corrected vacuum readings, which are different from previous years.

In addition, methane, carbon dioxide, oxygen, and vacuum are checked on a quarterly basis at a minimum to assess the function of the gas control system. The data collected during the reporting period are summarized below:

Methane	12-26%, typical 38.3% maximum
Carbon Dioxide	3-12%, typical 12.8% maximum
Oxygen	1-12%, typical 19.6% maximum
Vacuum (negative) Inches of Water	0.04 – .24 inches, typical 2.64 inches maximum

The above data continue to indicate declining landfill gas quality, as is expected in an older fill at a site that has been closed. The oxygen levels are due to conditions where adjustments to the system are made to maintain vacuum which can induce oxygen from ambient air intrusion along with declining gas production. Overall, the system is managed in a manner to keep the site under negative pressure, and maintain overall gas quality, to the extent

practicable in an older fill, when combined with the operating landfill system for its end use for energy recovery.

Details of the inspections and gas system measurements are included in Appendix A with the site inspection reports.

4.1.4 Storm Water Collection System

The storm water control system for the Tantaló site is designed to collect surface runoff from the site using side slope and perimeter drainage channels. Run-off is conveyed to the east and west and was historically discharged into the former Black Brook channel (Black Brook has been realigned as a part of the permitted landfill expansion, and the stream channel is no longer in its original location).

As described in the 2020 PRR stormwater construction was completed around Tantaló to reduce ponding.

Inspection of the stormwater collection system involved observations for the presence of uneven grade in drainage swales due to settlement; accumulation of sediment; litter, excess vegetation or other debris that could interfere with stormwater flows in swales, culverts, or other structures; blockages in culverts; evidence of erosion within swales, at the inlets or outlets of culverts, and discharge of silt laden water. The observations indicate that minor, routine maintenance was performed, including items such as repair of localized erosion of drainage swales, and cleaning of culverts to permit unobstructed flow downstream. Overall, the observations indicate a normally functioning and maintained stormwater collection system.

4.1.5 Miscellaneous Maintenance Activities

Miscellaneous maintenance activities at the Tantaló site involve inspection of the condition of groundwater monitoring wells and checking the integrity of the permitted landfill facility's fences, gates, signs, and the security of the site in general. There were no observed issues with permitted landfill facility security measures during the reporting period.

4.2 Operable Unit No. 2

Site operations and maintenance activities for the Tantaló OU-2 remedy during the reporting period, as summarized in Section 3.2, involved routine inspections of monitoring wells prior to sampling, general site inspections, well installations and an injection event. There were no other operations performed during the reporting period.

4.2.1 Monitoring Well Inspections

Monitoring well inspections were performed by ALS Environmental (ALS) and consisted of the following:

- Check protective casing, cap and lock for tampering;
- Check and re-label, as necessary, water level monitoring point on the inner well casing;
- Check area around well and annular space seal; and
- Measure well depth and integrity.

Information on monitoring well inspections has been documented on the field data sheets which have been attached to the environmental monitoring laboratory analytical reports (provided electronically on flash drive as Appendix B).

The condition of two wells has and will continue to impact groundwater sampling as follows:

- IN-3S: The well could not be adequately purged/sampled due the nearly pure concentration of injection material that was observed to be throughout the entire water column. This well has not been sampled since April 2021.
- T-26 DB: As it has been since Q1 2016, this well could not be adequately purged or sampled due to the semi-solidified injection material that consumes nearly the entire water column.

Solidified injection material was removed from injection well IN-6S during this reporting period and this well is once again sampled. Performance and injection monitoring wells not used or sampled during the reporting period would be inspected prior to future sampling or subsequent injection event to confirm that the wells are in acceptable condition, and if necessary, repairs will be made.

General inspections of the security of the Tantalio site (i.e., fences, gates, signs, and security of the site in general) have been performed as part of the permitted facility operations, and also as relates to OU-1 as described above. As noted above, there were no observed issues with the permitted landfill facility security measures during the reporting period.

5 ENVIRONMENTAL MONITORING

5.1 Operable Unit No. 1

Environmental monitoring during the OMM phase of the project includes the following:

- Groundwater quality monitoring of existing overburden well locations where impacts to groundwater have been previously detected, as defined in the OMM Plan;
- Leachate flow and quality monitoring; and
- Landfill gas monitoring (at buildings).

As previously noted, surface water monitoring had been performed in the past; but has been terminated with the approval of the NYSDEC.

Groundwater and leachate samples were collected by ALS Environmental (ALS) in October 2023 and April 2024. Samples were analyzed by ALS in accordance with the approved Site Analytical Plan (SAP) prepared for the SMI permitted solid waste management facility. Details on the methods and procedures in the SAP that are relevant to the Tantalito OU-1 environmental monitoring program are included as Attachment B in the final OMM Plan. The laboratory analytical reports for samples collected and analyzed during the reporting period are included in Appendix B on thumb drive. In addition, the analytical data collected during the reporting period are submitted electronically to the NYSDEC in the NYSDEC Electronic Data Deliverable (EDD) format, under a separate submittal.

The sections below discuss the results of the environmental monitoring performed during the reporting period.

5.1.1 Groundwater Monitoring

The groundwater monitoring wells included in the environmental monitoring for OU-1 of the Tantalito site remedy are defined in the final OMM Plan and include the following (see Figure 5-1 for locations):

T-1LL	T-1UT	T-16UTR
T-1LT	T-15UL	

Monitoring well T-16UTR is a replacement well for T-16UT, as explained in the *Tantalito OU-1 Semi-Annual Report No. 6*. T-16UTR was not sampled during the October 2023 and April 2024

event due to inadequate yield from the well. . This well has only been sampled four times since Spring 2012 due to inadequate yield.

The analytical parameters for testing of the groundwater samples are also defined in the final OMM Plan and include the volatile organic compounds (VOCs).

Groundwater sampling data were compared to New York State Part 703 groundwater quality standards for volatile organic parameters (Table 5-1). In addition, Table 5-1 presents historic data available for the same detected compounds. Due to the limited amount of and variability of the data (i.e., predominantly non-detect results, with few detections and variability among the detections), trend analysis and data plots have not been developed. However, some observations regarding the data are apparent as follows:

- In general, the same constituents are detected in groundwater in the sampling events conducted during the reporting period as have been in the historical data.
- Historically, up to eight VOCs were detected in the five monitoring wells above the NYSDEC Part 703 groundwater quality standards, including 1,1-dichloroethene, benzene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, toluene, trichloroethene, and vinyl chloride. By comparison, for the most recent event in the reporting period (Q2 2024), only two compounds, cis-1,2-dichloroethene and vinyl chloride in T-1UT, were detected above the Part 703 groundwater quality standards.
- In general, concentrations of the detected volatile organic compounds in groundwater during the reporting period sampling events are within the range of concentrations historically detected and generally comparable to recent sampling data. There is some variability; however (e.g., T1-UT), as would be expected in a predominantly vertical flow system as previously explained in prior OU-1 semi-annual reports. Additional data analysis was completed in late 2020 and early 2021 to assess trends in wells throughout the site. Overall, the vast majority of wells throughout the site are either exhibiting declining trends or are non-detect. A select few wells exhibited asymptotic or slight increasing trends. This additional analysis was submitted to the NYSDEC in 2021 and led them to recommend additional injections. A workplan outlining the proposed scope of injections including locations, injection material, and other logistics was presented to the Department in July 2023 and approved on November 17, 2023. Injections were subsequently performed during January and March 2024, and this work was described within Section 3.2 above.

Overall, the groundwater quality data are indicative of the implementation of the remedy with the collection of leachate/groundwater and capping to restrict infiltration and leaching of constituents.

Also, as indicated in the final OMM Plan, water level data collected during the monitoring program were further evaluated to confirm that groundwater flow paths in the vicinity of the Tantalo cap and adjacent Part 360 landfill cells remain primarily vertical, thereby indicating no significant lateral migration of contamination away from the site within the overburden. This was accomplished by comparing vertical gradients in well clusters T-1 and T-5. Historical water levels in the wells within these clusters were obtained as part of the permitted landfill expansion Part 360 *Site Investigation Report* in June and July of 2005, prior to completion of the OU-1 remedial actions. Water levels are also obtained from these wells as part of the Tantalo and/or adjacent Part 360 monitoring program, which allows for a comparison of vertical gradients through time as presented in Table 5-2. These data indicate that the vertical gradients measured during the reporting period monitoring events are generally consistent with those previously measured and continue to demonstrate a strong downward vertical gradient consistent with the site conceptual model and historical data. While minor fluctuations are anticipated due to seasonal variability, the presence of consistently strong downward gradients provides ongoing evidence that the hydrogeologic conditions in the vicinity of the Tantalo site have not been altered as a result of the completed remedial actions. The well casing in T-1SB was reported to be kinked and a water level measurement could not be collected in April 2043.

5.1.2 Leachate Sampling and Flow Measurement

Representative leachate grab samples were collected from the main wet well located at the northern end of the Tantalo site (Figure 5-1) and analyzed for various volatile organic and inorganic compounds. A summary of detected compounds is provided in Table 5-3 along with a comparison to prior leachate analytical data.

While the leachate data indicate some variability in constituent concentrations since the start of the semi-annual monitoring program, leachate indicator concentrations have generally declined over the most recent sampling events. Data variability and the declining concentrations are likely the result of several contributing factors, as follows:

- Reduction in infiltration because of the low-permeability cap system.
- Increased infiltration adjacent to the site as a result of the construction associated with the permitted solid waste landfill, as is discussed further below. The most recent monitoring data are more indicative of collection of adjacent groundwater than leachate, likely as a result of the increased infiltration caused by the temporary conditions associated with the permitted sanitary landfill construction. For instance, site-related volatile organic compounds are not detected, and the only parameters found above groundwater quality standards are naturally occurring substances such as iron, manganese, magnesium, and dissolved solids.

- Dissolution differences based on the solubility of the constituents present in the waste (e.g., more soluble compounds typically may be enriched more quickly as leachate residence time increases because of reduced infiltration).
- Preferential flow paths through the waste in which constituents may be depleted more quickly.
- Leachate mound decline and associated increase in contribution of the groundwater component from the perimeter of the landfill, outside of the capped area.

As noted above, in addition to some variability, the data indicate lower concentrations in various parameters (e.g., ammonia, BOD, bromide, chloride, TDS, TKN, and TOC), particularly by comparison to the baseline data collected at closure. As additional data are collected, trend plots may be used to further assess the data, if appropriate. Currently the data do not support a trend analysis based on the influence of the increased infiltration rates around the site perimeter. Trends in leachate characteristics will be further evaluated in the future, if needed. In the interim, the leachate data indicate declining concentrations, albeit influenced by stormwater infiltration, and do not indicate the need for further action beyond routine operation, maintenance, and monitoring.

In addition to leachate analytical data, the quantity of leachate removed at the site is monitored through the use of a flow meter installed at the valve box located north from the main wet well and is recorded on a monthly basis. Table 5-4 summarizes the leachate quantities generated at the site during the reporting period, along with previously collected data.

Leachate volumes for the site, as measured from the main wet well, were plotted versus time from October 2006 (i.e., completed installation of the membrane component of the final cover system) to the present. These data are shown on Figure 5-2. Superimposed on this plot are available monthly precipitation data from the SMI on-site weather station. Figure 5-2 shows, starting in the fall of 2012, temporary peaks in leachate flows, typically following periods of greater precipitation, although the timing of response is somewhat variable. As previously noted, and described in prior annual reports, the variability in leachate flow is a consequence of increased infiltration resulting from the construction activities associated with the adjacent permitted sanitary landfill. Some of this increased infiltration was addressed with regrading around Tantalo in order to reduce ponding and stormwater infiltration and which during the previous reporting period had exhibited a positive effect in reducing this infiltration. Increased infiltration because of the adjacent stormwater activities is further supported by the cap inspections which have not indicated issues with the integrity of the cap.

Table 5-4 shows a stable to downward trending leachate generation rate for this reporting period. From July 2023 to June 2024 a total of 2,146,491 gallons were pumped from the wet well compared to a total of 3,476,075 gallons pumped during the previous reporting period (July 2022 to June 2023). The volume pumped this reporting period was the lowest total since the 2016 to 2017 reporting period and is reflective of ongoing surface water management improvement being implemented around the outside of the Tantalo landfill.

As described in prior annual reports, the Tantalo leachate collection system consists of both a perimeter leachate/ groundwater collection drain and an interceptor drain for the collection of overburden groundwater from the area adjacent to monitoring well T-15. Flow from both systems is collected at the Tantalo main wet well. The T-15 flow meter malfunctioned during the current reporting period. As flow from T-15 combines with flow at the Wet Well, the total overall volume is still being tracked. Repairs to the T-15 flow meter are in progress. The data presented on Figure 5-2 represents the combined leachate generation data from these two sources. To provide additional insight into leachate generation rate trending, individual leachate generation data from these two sources have been plotted versus time from October 2006 to the present (with the exception of this reporting period due to T-15 meter malfunction discussed above. This data is shown on Figure 5-3. Figure 5-3 helps to illustrate the contributions to the leachate collection quantities from infiltration adjacent to the site. During the period from late 2012 through early 2014 when construction was occurring adjacent to the T-15 interceptor drain, leachate flow from the T-15 wet well was the major contributor to leachate quantity as a result of increased infiltration to the west of the site. As this construction was concluded and shifted to the permitted landfill cells to the north, the main wet well flows increased as shown on Figure 5-3 starting in mid-2014, due to increased infiltration adjacent to the site to the north, and the T-15 interceptor drain flow decreased with the exception of a few anomalies due to significant rainfall events.

The components contributing to the total volume of leachate collected include both the leachate from the mound that exists within the waste mass and groundwater infiltrating into the leachate collection system. Since the time of closure until 2012, the leachate flow data indicated a declining trend (i.e., reaching an asymptotic level consistent with typical mound decline and reflecting the groundwater component), however more recent data indicates the trend is increasing slightly. This additional leachate volume is believed to be due to increased stormwater flows around the perimeter of the Tantalo waste mass, and therefore increased infiltration happening around the perimeter of the Tantalo site. The increase stormwater flows are a result of the development of the surrounding SMI landfill which due to its topography and design, have redirected significant areas of stormwater flows to the stormwater channels round Tantalo. This additional stormwater volume leads to infiltration rates greater than experienced in 2006, and therefore additional leachate volume.

The leachate volumes presented on Figures 5-2 and 5-3 which indicate that:

- Perimeter Leachate / Groundwater Collection System
 - The measured leachate flows are consistent with expectations for the decline of leachate levels inside the waste mass because of the reduced infiltration from the low-permeability cover constructed as a part of the OU-1 remedy.
 - The reduced leachate head in the landfill results in a lower hydraulic gradient driving flow laterally to the leachate collection lines. As a result, the rate of decline of leachate flow over time is also reduced.
 - Starting in the latter part of 2012 and continuing to the present, temporary peaks in leachate generation levels have been observed, attributable to elevated groundwater conditions and temporarily ponded stormwater associated with ongoing construction activities for the permitted Part 360 landfill expansion, previously occurring directly adjacent to the west and currently to the north of the Tantalio landfill, as discussed above.
 - Leachate volumes decrease during this reporting period compared to recent years.

The foregoing discussion of the leachate flow data illustrates that fluctuations in monthly leachate flow data likely result from the following mechanisms:

- Changes in groundwater levels due to an increase in groundwater infiltration associated with the construction of the permitted Part 360 landfill expansion (e.g., temporary ponding while pumping is performed due to temporary construction conditions). While such construction conditions existed on the west side of the Tantalio site, the peaks in leachate flow occurred at the T-15 interceptor drain (see 2014 through 2016 annual reports). Now that construction is focused north of the Tantalio site, and construction conditions exist predominantly adjacent to the northern portion of the perimeter leachate/groundwater collection system, the peaks in flow rate are associated with the perimeter system and not the T-15 interceptor drain. This clearly illustrates the transient nature of these circumstances associated with construction, and not with performance issues associated with the remedy.
- Additionally, over the past ten years increased infiltration is present at the perimeter of the Tantalio site due to construction of new landfill cells to the west and north of the Tantalio site. Portions of the runoff from the surrounding cells now travels down into the stormwater collection features around Tantalio opposed to before where runoff left the site or traveled to different ponds or collection systems. This increased runoff has led to increased infiltration into the leachate collection system which is anticipated to

continue for the foreseeable future. As noted above, stormwater improvements were made to reduce ponding of stormwater around Tantalo. This reduced ponding should help to reduce the total leachate into the system; however, due to the significant rainfall observed over the last several years a reduction was not observed.

- The potential for short circuiting of ponded stormwater flow through more permeable media such as aggregate used in construction. The leachate collection lines are not intended to be watertight because it is a collection system, not a conveyance system. If coarse-grained aggregates (e.g., road stone) are interconnected, likely inadvertently, with the collection system or non-water-tight pipe joints, a flow path would be established to allow infiltrating stormwater from ponded areas to enter the leachate collection system.
- Operation and maintenance of the leachate collection system, such as collection pipe cleaning (i.e., water used during system cleaning operations, in 2022 added water that is measured as generated leachate).

The current leachate flow data has shown an increase since 2012 primarily caused by the permitted landfill construction activities. The fact that increases in flow are managed through the leachate collection system does not diminish the performance of the remedy. In addition, inspections of the cap show it is in good working condition and not a likely source of infiltration. Continued monitoring of leachate flow and groundwater elevations adjacent to the collection systems is all that is necessary at this time to continue to evaluate remedy performance and confirm the overall leachate generation rate projections.

5.1.3 Landfill Gas Monitoring

As a part of the monthly inspection process, SMI tests for the presence of combustible gas in the interior of buildings adjacent to the Tantalo site, specifically the maintenance shop and red barn. Monitoring is performed with a portable combustible gas meter. In addition to building monitoring, areas surrounding the buildings are checked during routine inspections for signs of potential gas migration, such as vegetative stress. During the reporting period, gas was not detected in the buildings and there was no evidence of gas migration in the area surrounding the structures. Gas monitoring data reports for gas testing performed on September 26, 2023, December 27, 2023, March 26, 2024, and June 24, 2024 are presented in Appendix A and indicate an absence of landfill gas within Site structures.

In addition to combustible gas monitoring within site structures, methane monitoring was conducted around the Tantalo site perimeter during the same time building interior monitoring was performed, and these data are also presented in Appendix A.

Apart from the gas monitoring activities, vacuum readings, oxygen, gas, and carbon dioxide concentrations are measured in the gas collection system at the system tie-in point to the Part 360 permitted landfill gas control system on a quarterly basis, at a minimum. These landfill gas monitoring results are reported with the monthly site inspection reports, which are included in Appendix A, and which were previously discussed in Section 5.1.3. The gas monitoring results are typical of declining gas trends at the site, and appropriate operation of the gas control system.

5.2 Operable Unit No. 2

Groundwater monitoring during the OMM phase for OU-2 is designed to assess changes in groundwater quality at monitoring locations where volatile organic compound (VOC) concentrations exceeding groundwater standards, criteria and guidance (SCGs) have previously been detected and at sentinel locations along the down-gradient SMI property boundary.

The Tantalo OU-2 remedy contains two separate groundwater monitoring components, which are as follows:

- **Performance Monitoring:** Performance monitoring includes collection of groundwater samples following an electron donor injection event to monitor the effects of the injection and to assess the need for modification to dosing concentrations and/or injection sequence for subsequent injection events. Performance monitoring will be conducted via routine environmental data collection over the next several monitoring events.
- **Environmental Monitoring:** Environmental monitoring of the OU-2 remedy includes collection of groundwater samples from monitoring locations where VOC concentrations exceeding groundwater standards, criteria and guidance (SCGs) have previously been detected to document the anticipated continued and enhanced reductive dechlorination (i.e., biological degradation) of chlorinated volatile organic compounds (CVOCs) as a result of the remedy implementation. In addition, environmental monitoring includes the collection of groundwater samples from sentinel wells located on the down-gradient boundaries. During the reporting period, routine groundwater monitoring in accordance with the final OMM Plan was conducted in the environmental monitoring wells, as modified by the April 25, 2013 NYSDEC approval (e.g., semi-annual monitoring). With the change to semi-annual monitoring, wells were added to the monitoring program to provide a more complete view of bedrock groundwater conditions, similar to that obtained during the baseline

sampling event. The monitoring well locations are shown on Figures 5-4 and 5-5. The sampling schedule for the environmental monitoring wells and the sampling parameters for the reporting period are shown in Table 5-5. It should be noted that sample collection from wells T-26SB and T-26DB was suspended starting with the first quarter 2016 due to injection material present in the well which prevented collection of a representative groundwater sample. However, T-26SB was able to be sampled again starting in fourth quarter 2021. IN-3S has not been sampled since second quarter 2021 due to the presence of injection material. In addition, IN-3S has not been sampled since second quarter 2021 due to the presence of injection material. T-32DBR was not sampled during the April 2024 event due to lack of recharge. New downgradient monitoring wells T-40SB and T-40DB were installed during January 2024 downgradient from former sentinel well T-39SB.

Groundwater samples were collected by ALS in accordance with the schedule presented in Table 5-5 and analyzed by ALS in accordance with the approved SAP prepared for the SMI permitted solid waste management facility. Details on the methods and procedures in the SAP that are relevant to the Tantalio OU-2 monitoring program are included as Attachment B in the final OMM Plan. The groundwater laboratory analytical reports for samples collected and analyzed during the reporting period are provided electronically in Appendix B. A summary of detected compounds measured during the Tantalio OU-2 groundwater sampling events conducted to date is included as Appendix C to this report.

The sections below discuss the results of the groundwater sampling performed during the reporting period.

5.2.1 Groundwater Monitoring Data Analysis Overview

The groundwater monitoring data collected to date indicate that the electron donor injections have been successful in maintaining/enhancing reductive dechlorination in the bedrock groundwater. The extent of the groundwater plume, based on the most recent sampling data (through 2nd quarter 2024) collected as part of the remedy, is illustrated on Figures 5-4 and 5-5 for the shallow and deep bedrock plumes, respectively. Recent data from Part 360 landfill monitoring wells (3rd Quarter 2023) have been included to provide additional data on the extent of the groundwater plume. As previously mentioned, sampling of IN-3S and T-26DB was not conducted during the reporting period, and for these wells, the most recent available sampling data are presented. The most recent data are also provided for T-32DBR from October 2023. Figures 5-4 and 5-5 also illustrate conditions from the 2005 pre-design sampling results. Updated isoconcentration contours have been plotted on these figures to show the current extent of the bedrock groundwater plume.

A review of Figures 5-4 and 5-5 indicates that the edge of the shallow (near bedrock surface) plume boundary has migrated to the south compared to historical conditions while the deeper plume boundary has remained stable or slightly retracted. Concentrations within the center of the plume are generally lower than the historical (2005) plume mapping in the deep groundwater. In general, concentrations within the shallow bedrock (near bedrock surface) plume are materially lower than the historical plume mapping, with a majority of the remaining elevated concentrations in the area of T-25SB and T-26SB, as well as an isolated area around WEX-213SB. In addition, the total CVOC concentration in T-25SB, following the supplemental electron donor additions has declined from 574 µg/L (pre-injection April 2013 data) to 209 µg/L (April 2024 data). A slight increase to 294 µg/L was observed during the April 2020 event and a large decrease in the April 2021 event to 35 µg/L was noted. The April 2022, 2023, and 2024 results remain consistent with a CVOC concentration of 304 µg/L, 264 µg/L, and 209 µg/L, respectively. Similarly, the total CVOC concentration in the WEX-212IB has declined from 639 µg/L (May 2012 data) to 27.02 µg/L (May 2024 Data). These data indicate that the multiple injections of electron donor material (and bacterial inoculant when required) have had a beneficial impact on groundwater quality within and adjacent to the injection area. An assessment of reductive dechlorination at the site is discussed further in Section 5.2.2.

Total CVOC concentrations are also summarized for the shallow and deep bedrock groundwater in Tables 5-6 and 5-7. The data are grouped as follows:

- Environmental monitoring wells in an inner tier surrounding the injection wells for evaluation of groundwater quality in the near plume area.
- Environmental monitoring wells in an outer tier (sentinel wells) surrounding the down-gradient perimeter of the site and functioning as sentinel wells.
- Performance (remedy implementation) monitoring wells located within the injection area (area immediately around the Tantalito landfill boundary).
- Part 360 landfill monitoring wells.

As shown in Tables 5-6 and 5-7, monitoring data at the sentinel wells indicate that concentrations of the CVOCs related to the Tantalito site are either not detected or when infrequently detected (three shallow bedrock samples and one deep bedrock sample), have historically been detected below SCGs. With the recent exception of T-39SB, these data continue to indicate that the plume is contained on property owned by SMI and there is little to no potential for down-gradient exposure.

Well T-39SB exceeded the SCGs for the fourth consecutive event for cis 1,2-dichloroethene. This well has historically had concentrations just below the SCG. The increasing trend in this

well is likely due to ongoing reductive dechlorination of TCE upgradient from this well induced by recent electron donor injections. Two additional monitoring wells (T-40SB and T-40DB) were also installed approximately 500 feet south of T-39SB during January 2024 to serve as sentinel wells.

Further evaluation of the groundwater data in relation to the enhancement of reductive dechlorination is discussed in Section 5.2.2.

5.2.2 Assessment of Enhanced Reductive Dechlorination

The Tantalio OU-2 remedy involves the injection of electron donor material (and bacterial inoculant when necessary) to create an enhanced anaerobic reactive zone in the area adjacent to the injection wells to reduce the mass of CVOCs that would otherwise migrate down gradient. The addition of electron donor also was designed to serve the purpose of maintaining conditions conducive to reductive dechlorination which may have been affected by completion of the OU-1 remedy for the site. As described in Section 5.1.2, the OU-1 remedy has reduced leachate generation through both capping and leachate collection, which could in turn reduce the presence of electron donors contributed by the landfill as a result of the reduction in mass flux. The monitoring programs are designed to assess the performance of the remedy relative to these objectives.

The effectiveness of the electron donor injections in the area adjacent to the injection wells was previously documented in the *Remedy Completion Report* and discussed in previously submitted OU-2 Annual Reports. To briefly summarize, the performance monitoring data presented in the *Remedy Completion Report*, particularly at the Office Well, indicated the following:

- TCE concentrations declined;
- Cis-1,2-DCE (a degradation product) concentrations were trending higher;
- Cis-1,2-DCE, vinyl chloride, and ethene (all sequential degradation products) peaked as TCE declined and the peaks occurred at offset times (i.e., cis-1,2-DCE, then vinyl chloride, then ethene); and
- There were two peaks of metabolic acids (indicative of biological degradation) generally corresponding to the two sodium lactate injections. The effectiveness of the recent 2024 injection in event will be evaluated in subsequent reports.

In addition to the localized enhancement of reductive dechlorination within the injection area, some portion of the electron donor material is expected to migrate down gradient. As this electron donor material migrates down gradient, it is expected that the overall groundwater microbial activity will increase. Microbial testing, reported in *OU-2 Annual*

Report No. 3, indicates that the bedrock groundwater contains methanotrophic bacteria (Dehalococcoides), the bacteria responsible for reductive dechlorination, though at low populations, most likely due to low electron donor concentrations. Therefore, to further assess the distribution of electron donor, groundwater oxidation-reduction potential (ORP) was examined. As anaerobic bacterial activity becomes enhanced due to the addition of electron donor material, ORP should decrease in areas influenced by the electron donor material. Based on a review of groundwater geochemical conditions, the most recent electron donor injection event included injections of not only electron donor material; but also a stabilizer to maintain anaerobic (low ORP) conditions and a bacterial inoculant to increase the methanotrophic bacterial population within groundwater. A comparison of groundwater ORP between the baseline sampling event in 2007 and the 2nd quarter 2024 sampling event, for both shallow and deeper bedrock is shown on Figures 5-6 and 5-7, respectively.

As previously stated, the OU-1 remedy has reduced flux the of nutrients/electron donors from the source area, and thus, could affect biological activity. ORP levels shown on Figures 5-6 and 5-7 indicate that baseline ORP levels have been generally maintained in down-gradient areas of the plume and in some areas ORP levels (greater negative ORP) are indicative of enhanced biological activity (e.g., T-25SB, T-31DB, T-35DB, T-37SB, T-37DB, IN-7S, IN-6S, WEX-210SB). Two wells, T-27SB and SE-100SBR have shown positive ORP values in recent sampling events. These wells historical were only slightly negative as shown on Figure 5-6. As of the second quarter 2023, these two wells are showing slightly negative ORP values; however, as of the April 2024 event, T-27SB is positive, while SE-100SBR remains negative. This may be due to the natural downgradient migration of more ORP positive groundwater identified within the baseline portion of Figure 5-6 and the depletion of electron donor material in the vicinity of this well.

Well clusters T-25 and T-26 in previous annual reports have been chosen for more detailed analysis because they have historically defined the general axis of the plume where concentrations are above SCGs and have previously shown more limited evidence of enhanced reductive dechlorination by comparison to the adjacent injection area. When looking at ORP results between baseline and the most recent sampling event (Figures 5-6 and 5-7), ORP levels remain negative (with the exception of T-27SB, T-36DB, T-32SBR, WEX-211SB, and WEX-213SB) (i.e., supporting reductive dechlorination) down-gradient of the T-25 and T-26 well clusters (e.g., well locations T-23 cluster and WEX-210SB). As previously mentioned, sampling of T-26DB was not conducted during the reporting period because of the sustained presence of electron donor material.

The supplemental electron donor additions, as recommended in the *Combined Annual Report No. 1*, were designed to continue to enhance microbial activity in the area between IN-7S and T-25 and in the area historically mapped with the highest concentrations of CVOCs (e.g.,

injection area immediately downgradient of the Tantalito Landfill). The additions were also designed to further promote microbial activity in the T-26 area, which, based on historical results, appears to be somewhat less hydraulically connected to areas influenced by prior injections.

The second long-term electron donor injection conducted in November 2010 at injection well IN-7S and IN-5S involved pressurized injection of 150 gallons of 3DMe® concentrate at a dilution rate of 30:1 (water to 3DMe concentrate). For the supplemental electron donor addition performed in September 2013 at injection well IN-7S (along with IN-6S, IN-2D, T-26SB, and T-26DB), the same volume of 3DMe concentration was injected, but at a 3:1 dilution and via gravity addition to the well. The electron donor material in these wells would disperse over time into the bedrock groundwater to help maintain organic carbon levels necessary for microbial activity. Well WEX-212IB is downgradient of injection well IN-7S.

To examine the effect on groundwater microbial activity from the supplemental electron donor additions down gradient of IN-7S, time-series plots of oxidation-reduction potential indicator parameters (e.g., ferrous iron, sulfide, and methane) along with total organic carbon (TOC), an electron donor indicator, ORP and molar CVOC concentrations were generated for the T-25 well cluster, as well as monitoring well WEX-212IB. In addition, molar fraction plots were developed for these wells to assess the degree of reductive transformation that has occurred. As shown on Figure 5-8, TOC concentrations and ORP levels in well WEX-212IB are generally maintained following the supplemental electron donor addition, and similar to results following the second long-term electron donor injection sulfide is detected approximately 6 months following the electron donor addition. Sporadic detections of ferrous iron and methane are also indicative of reducing conditions. The individual CVOC molar fractions indicate characteristics of enhanced reductive dechlorination with cis-1,2-DCE representing an increasingly higher fraction than the parent compound TCE, and vinyl chloride occurring sporadically. This is particularly true immediately following the injection events. Similar, but more subdued results are seen in the T-25 cluster data (Figure 5-9).

During the supplemental injection event, electron donor material was also added to injection wells IN-2D and IN-6S to address residual CVOC concentrations within the area of highest levels historically mapped at the site. Additional electron donor material was injected into IN-6S during the March 2024 injection event. To assess the effects of these electron donor additions, groundwater data from monitoring well WEX-213SB and injection well IN-6S were examined. WEX-213SB, adjacent to IN-6S, is a shallow bedrock monitoring well utilized for Part 360 landfill monitoring purposes and was added to the Tantalito OU-2 monitoring program to assess the effects of the supplemental electron donor addition. Plots of biological activity indicators and CVOC data for IN-6S and WEX-213SB are presented on Figure 5-10. Following the injection in IN-6S, the most recent data show a generally stable negative ORP,

although ORP has been rising (less negative) since April 2019 through Fall 2023 and has shown a decrease (more negative) thereafter, fluctuating sulfide concentration (generally low and stable last 3 years), and methane declining while TOC is generally stable since 2016. These data indicate changing conditions commensurate with consumption of electron donor material over time, but sustained conditions overall that support reductive dechlorination. Individual CVOC molar fractions within IN-6S show a notable sustained reduction for TCE and corresponding sustained increases for cis-1,2-DCE and vinyl chloride. The increase in cis-1,2-DCE concentration after the most recent injection event is notable as it reflects the increased rate of reductive dechlorination of remaining TCE occurring in the vicinity of IN-6S. Ethylene during the 4th quarter 2019 showed an increase in concentration but returned to typically observed level of non-detect in the 2nd quarter 2020 sampling event and remains relatively low during the current monitoring period, although a small spike is periodically observed. CVOCs were non-detect in IN-6S during 2nd and 4th quarters 2016, slightly detected in 2nd quarter 2017, increased in concentration during the 4th quarter 2017 and 2nd quarter 2018, decreased to low levels during the 4th quarter 2018 and 2nd quarter 2019, remained low during the 4th quarter 2019, 2nd quarter 2020 (~70% vinyl chloride (degradation product) molar fraction, 4th quarter 2020, and increase in 2nd quarter 2021 due to a spike in 1,2-DCE. During the last few monitoring periods CVOCs remain high as a result of cis-1,2-dichloroethane and vinyl chloride concentrations in the well. As noted above, additional electron donor material was injected into IN-6S during the March 2024 injection event. Full details of the injection event are presented in Section 3.2.

Data for WEX-213SB shows increasing ORP in fall 2023 and spring 2024 with stable TCE concentrations and a generally declining trend in cis-1,2-DCE. These data collectively indicate that reductive dechlorination is occurring and is being supported by the electron donor injections. The reason for the recent increase may be due to the most recent round of electron donor injections within nearby injection well IN-6S. It may also be due to the low yield of WEX-213SB, which can skew analytical results (i.e., poor purging and unrepresentative concentrations), the changes in local recharge with the completion of the permitted landfill area to the west, redirecting stormwater to the south with the closure of Black Brook to the north, and the potential for temporary gradient alterations from the injection process that may have resulted in some redistribution of CVOCs. Regardless of the exact cause, the increase in CVOC concentrations is localized and is not evident in farther down-gradient wells (i.e., SE-107SB, SM-8SBR, WEX-204SB, WEX-209SB and WEX-210SB at which CVOCs are not detected). CVOC concentrations within WEX-213SB will continue to be monitored to assess potential trends.

Since the last annual report, increases in total CVOC concentrations were measured at IN-6S (67 to 825 µg/L). IN-7S decreased from 81 to 15 µg/L), with a decrease in WEX-213SB (105 to 42 µg/L). The Office Well consistent at 2 to 1.71 µg/L. Plots of biological activity indicators

and CVOC data for the Office Well and IN-7S are presented on Figure 5-11. Data for the wells show generally stable ORP (although IN-7S has been generally increasing since 2016) along with decreasing methane (slight increase in 2024) and sulfide (IN-7S). Individual CVOC molar fractions for these wells indicate characteristics of enhanced reductive dechlorination is decreasing, though influences caused by the most recent round of injections will be monitored during the next reporting period. IN-7S shows a notable sustained reduction for TCE. Cis-1,2-DCE and vinyl chloride and remained relatively stable since 2019 with slight fluctuations in concentrations. The elevated detection of ethylene noted during the 2nd quarter 2019 (~ 25% molar fraction) decreased to low levels typically reported in recent years. The Office Well is generally stable with J values concentrations of TCE present the last three years, along with relatively stable cis-1,2-DCE and vinyl chloride concentrations.

In general, the foregoing analysis indicates the following:

- The electron donor injections have been successful at enhancing and/or maintaining the naturally occurring reductive dechlorination in the bedrock groundwater.
- The most recent electron donor injection occurred in 2024, and the effects of this injection may not have been reflected in the results of April 2024 groundwater monitoring. Groundwater monitoring will continue during the next reporting period to assess the effects of this injection.
- The boundary of the high-concentration portions of the plume has retracted, and concentrations are generally lower than the historical (2005) plume mapping, and the recent supplemental injections, have further reduced CVOC concentrations in the main part of the plume.
- CVOCs continue to be either not detected, or well below SCGs in the sentinel monitoring wells with exception of T-39SB during the April 2023 sampling event. Additional sentinel wells T-40SB and T-40DB have been installed downgradient from this location and activities to mitigate the migration are discussed in previous sections.
- Although CVOC concentrations have decrease from the baseline throughout the site and despite the fact that key dechlorination metrics such as ORP, and methane concentrations, etc. have displayed evidence of dechlorination throughout the site, in a few key wells (SE-100, IN-6S, IN-7S and T-39SB) concentrations have either increased or remained stable for the last few reporting periods. As described throughout this report, a third injection event at key locations was completed in the first 3 months of 2024. The effectiveness of the recent injection event will be evaluated in subsequent reports.

The groundwater remedy is generally performing as intended; but based on conversations with the NYSDEC additional injections at key locations are being implemented. Additional details regarding these conclusions and recommendations follow in Section 6.

6 CONCLUSIONS AND RECOMMENDATIONS

The results of the monitoring and inspection activities conducted during this reporting period, as discussed in more detail in the periodic review compliance discussion within Section 2 of this report, and in Sections 4 and 5 indicate the following:

- Overburden groundwater quality data are indicative of the implementation of the OU-1 remedy with the collection of leachate/groundwater and capping to restrict infiltration and leaching.
- Current leachate flow data, discounting some of the transient fluctuations associated with increased infiltration and elevated groundwater levels resulting from construction in the permitted landfill expansion area, indicate that leachate flow quantity is consistent with the OU-1 remedy performing as intended.
- The OU-2 electron donor injections have been successful at maintaining/enhancing the naturally occurring reductive dechlorination in the shallow and deep bedrock groundwater, most notably in the injection area and to the east/northeast (e.g., around the office well). Evidence of enhanced reductive dechlorination has historically been more limited to the west/southwest but following the most recent injections monitoring data indicate that reductive dechlorination is occurring and the addition of electron donor material has enhanced the process and reduced CVOC concentrations.
- CVOCs continue to be either not detected or well below SCGs in the sentinel monitoring wells with exception of T-39SB during the recent sampling events.
- The OU-2 bedrock groundwater plume boundary has retracted, and concentrations are generally lower than the historical (2005) plume mapping within the shallow and deep bedrock groundwater.
- To the extent that the capping of OU-1 could have altered substrate and reducing conditions due to reduced leachate generation, the electron donor injections appear to have offset such an effect and the plume remains contained or is retracting.

- Although CVOC concentrations have reduced from the baseline throughout the site, and despite the fact that key dechlorination metrics such as ORP, and methane concentrations, etc. have displayed evidence of dechlorination throughout the site, in a few key wells (SE-100, IN-6S, IN-7S and T-39SB) concentrations have either increased or remained stable for the last few reporting periods. A third injection event at key locations was completed in the first 3 months of 2024. The effectiveness of the recent injection event will be evaluated in subsequent reports.

Overall, these observations indicate that the OU-1 and OU-2 remedies are functioning as intended. In particular, the remedial action objectives and how the remedy is addressing each may be summarized as follows:

- Eliminate the potential for future ingestion, inhalation of, or dermal contact with volatile organic compounds...in bedrock groundwater.... *The OU-2 remedy has been successful in containing the plume to SMI property, which prevents exposure.*
- Eliminate, to the extent practicable, off-site migration of groundwater that does not attain NYSDEC Class GA Ambient Water Quality Criteria. *The plume is currently contained on SMI property.*
- Restore, to the extent practicable, the pre-existing quality of the groundwater in the bedrock aquifer. *The ongoing monitoring indicates the plume is stable or retracting in response to the implementation of both the OU-1 and OU-2 remedies, and in general water quality improvements are evident.*

As noted above, at the request of the NSYDEC additional injections have been performed at select wells to enhance further degradation of chlorinated compounds. The effectiveness of the recent injection event will be evaluated in subsequent reports.

Table 6-1 summarizes the list of monitoring wells and parameters for sampling during the next reporting period. Groundwater data will be evaluated upon receipt to assess if additional remedial activities are recommended prior to the submittal of the next Periodic Review Report and Combined Annual Report.

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TABLES

TABLE 5-1
TANTALO OU-1
GROUNDWATER MONITORING RESULTS, DETECTED PARAMETERS

Well	Date	1,1,1-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	2-BUTANONE	4-METHYL-2-PENTANONE	ACETONE	BENZENE	CIS-1,2-DICHLOROETHENE	M+P-XYLENE	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRICHLOROETHENE	VINYL CHLORIDE
NYSGWQS		5	5	5				1	5	5	5	5	5	5	2
T-1LL															
Historical Data	9/13/1995	10 U	10 U	10 U	10 U	10 U	20 U	10 U	27 U	10 U	10 U	10 U	10 U	2 J	5 J
Spring 2008 Semi-annual	4/22/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	22	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2008 Semi-annual	10/23/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	25	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2009 Semi-annual	4/23/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	21	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2009 Semi-annual	10/15/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	9.8	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2010 Semi-annual	4/23/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	9.4	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2010 Semi-annual	10/20/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	10	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2011 Semi-annual	4/11/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	7.7	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2011 Semi-annual	10/18/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	13	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2012 Semi-annual	4/11/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	16	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2012 Semiannual	10/12/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	9.9	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2013 Semiannual	4/19/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	6.6	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2013 Semiannual	10/24/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	7.7	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2014 Semiannual	4/14/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2014 Semiannual	10/21/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5.8	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2015 Semiannual	4/28/2015	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2015 Semiannual	10/7/2015	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2016 Semiannual	5/4/2016	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2016 Semiannual	10/6/2016	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2017 Semiannual	4/27/2017	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2017 Semiannual	10/20/2017	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2018 Semiannual	4/18/2018	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2018 Semiannual	10/19/2018	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2019 Semiannual	4/23/2019	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2019 Semiannual	10/22/2019	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2020 Semiannual	4/29/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2020 Semiannual	10/6/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2021 Semiannual	4/30/2021	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2021 Semiannual	10/27/2021	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2022 Semiannual	4/20/2022	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2022 Semiannual	10/19/2022	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2023 Semiannual	4/21/2023	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2023 Semiannual	10/18/2023	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2024 Semiannual	4/26/2024	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
T-1LT															
Historical Data	9/13/1995	10 U	10 U	10 U	10 U	10 U	20 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U
Historical Data	10/30/2007	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2008 Semi-annual	4/22/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	330 D	5 U	5 U	5 U	5 U	5 U	15
Fall 2008 Semi-annual	10/23/2008	10 U	10 U	10 U	20 U	20 U	40 U	10 U	200	10 U	10 U	10 U	10 U	10 U	10 U
Spring 2009 Semi-annual	4/23/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	120	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2009 Semi-annual	10/15/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	130	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2010 Semi-annual	4/23/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	190 D	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2010 Semi-annual	10/20/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	110	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2011 Semi-annual	4/11/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	72	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2011 Semi-annual	10/18/2011	Not Sampled Due to Inadequate Yield from Well													
Spring 2012 Semi-annual	4/11/2012	5 U	5 U	5 U	10 U	10 U	31	5 U	54	5 U	5 U	5 U	5 U	5 U	5.2
Fall 2012 Semiannual	10/12/2012	5 U	5 U	5 U	10 U	10 U	100	5 U	29	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2013 Semiannual	4/19/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	54	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2013 Semiannual	10/24/2013	5 U	5 U	5 U	10 U	10 U	120	5 U	23	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2014 Semiannual	4/14/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	33	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2014 Semiannual	10/21/2014	5 U	5 U	5 U	10 U	10 U	190 D	5 U	6.8	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2015 Semiannual	4/28/2015	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2015 Semiannual	10/7/2015	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2016 Semiannual	5/4/2016	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2016 Semiannual	10/6/2016	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2017 Semiannual	4/27/2017	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2017 Semiannual	10/20/2017	5 U	5 U	5 U	10 U	10 U	21	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2018 Semiannual	4/18/2018	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2018 Semiannual	10/19/2018	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2019 Semiannual	4/23/2019	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2019 Semiannual	10/22/2019	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2020 Semiannual	4/29/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2020 Semiannual	10/6/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2021 Semiannual	4/30/2021	5 U	5 U	5 U	10 U	10 U	51	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2021 Semiannual	10/27/2021	Not Sampled Due to Inadequate Yield from Well													
Spring 2022 Semiannual	4/20/2022	5 U	5 U	5 U	10 U	10 U	29	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2022 Semiannual	10/19/2022	5 U	5 U	5 U	10 U	10 U	150 D	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2023 Semiannual	4/21/2023	5 U	5 U	5 U	10 U	10 U	120 D	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2023 Semiannual	10/18/2023	5 U	5 U	5 U	10 U	10 U	150 D	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2024 Semiannual	4/26/2024	50 U	50 U	50 U	100 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
T-1UT															
Historical Data	9/13/1995	10 U	10 U	10 U	10 U	10 U	20 U	10 U	14	10 U	10 U	10 U	10 U	2 J	3 J
Historical Data	10/30/2007	5 U	5 U	5 U	10 U	10 U	20 U	5 U	48	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2008 Semi-annual	4/22/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	56	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2008 Semi-annual	10/23/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	59	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2009 Semi-annual	4/23/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	58	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2009 Semi-annual	10/15/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	54	5 U	5 U	5 U	5 U	5 U	5
Spring 2010 Semi-annual	4/23/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	56	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2010 Semiannual	10/20/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	57	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2011 Semi-annual	4/11/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	55	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2011 Semi-annual	10/18/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	66	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2012 Semi-annual	4/11/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	78	5 U	5 U	5 U	5 U	5 U	5.2
Fall 2012 Semiannual	10/12/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	55	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2013 Semiannual	4/19/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	89	5 U	5 U	5 U	5 U	5 U	6.4
Fall 2013 Semiannual	10/24/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	100	5 U	5 U	5 U	5 U	5 U	6
Spring 2014 Semiannual	4/14/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	66	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2014 Semiannual	10/21/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	110	5 U	5 U	5 U	5 U	5 U	5.1</

TABLE 5-1
TANTALO OU-1
GROUNDWATER MONITORING RESULTS, DETECTED PARAMETERS

Well	Date	1,1,1- TRICHLORO ETHANE	1,1- DICHLORO ETHANE	1,1- DICHLORO ETHENE	2-BUTANONE	4-METHYL-2- PENTANONE	ACETONE	BENZENE	CIS-1,2- DICHLORO ETHENE	M+P- XYLENE	TETRACHLORO- ETHENE	TOLUENE	TRANS-1,2- DICHLORO ETHENE	TRICHLORO ETHENE	VINYL CHLORIDE
NYSGWQS		5	5	5				1	5	5	5	5	5	5	2
T-15UL															
Historical Data	9/19/1995	5 J	3 J	22	4 J	5 J	20 U	5 J	1400	1	10 U	23	7 J	3900	200
Historical Data	10/30/2007	5 U	5 U	5 U	10 U	10 U	20 U	5 U	70	5 U	5 U	5 U	5 U	23	5 U
Spring 2008 Semi-annual	4/23/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2008 Semi-annual	10/23/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	380 D	5 U	5 U	5 U	5 U	32	190
Spring 2009 Semi-annual	4/23/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2009 Semi-annual	10/15/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	64	5 U	5 U	5 U	5 U	55	5 U
Spring 2010 Semi-annual	4/23/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	29	5 U	5 U	5 U	5 U	37	5 U
Fall 2010 Semi-annual	10/20/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	50	5 U	5 U	5 U	5 U	100	5 U
Spring 2011 Semi-annual	4/11/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2011 Semi-annual	10/18/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2012 Semi-annual	4/11/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5.5	5 U
Fall 2012 Semiannual	10/12/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	7.9	5 U	5 U	5 U	5 U	7.9	5 U
Spring 2013 Semiannual	4/19/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5.1	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2013 Semiannual	10/24/2013	5 U	5 U	5 U	10 U	10 U	10 U	5 U	6.3	5 U	5 U	5 U	5 U	8.2	5 U
Spring 2014 Semiannual	4/14/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2014 Semiannual	10/21/2014	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2015 Semiannual	4/28/2015	5 U	5 U	5 U	10 U	10 U	10 U	5 U	16	5 U	5 U	5 U	5 U	7.3	5 U
Fall 2015 Semiannual	10/7/2015	5 U	5 U	5 U	10 U	10 U	10 U	5 U	12	5 U	5 U	5 U	5 U	6.7	5 U
Spring 2016 Semiannual	5/4/2016	5 U	5 U	5 U	10 U	10 U	10 U	5 U	13	5 U	5 U	5 U	5 U	5.2	5 U
Fall 2016 Semiannual	10/6/2016	5 U	5 U	5 U	10 U	10 U	10 U	5 U	11	5 U	5 U	5 U	5 U	5.7	5 U
Spring 2017 Semiannual	4/27/2017	5 U	5 U	5 U	10 U	10 U	10 U	5 U	7.3	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2017 Semiannual	10/20/2017	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5.4	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2018 Semiannual	4/18/2018	5 U	5 U	5 U	10 U	10 U	10 U	5 U	7.8	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2018 Semiannual	10/19/2018	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2019 Semiannual	4/23/2019	5 U	5 U	5 U	10 U	10 U	10 U	5 U	6.7	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2019 Semiannual	10/22/2019	5 U	5 U	5 U	10 U	10 U	10 U	5 U	9.4	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2020 Semiannual	4/29/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	25	5 U	5 U	5 U	5 U	5 U	21
Fall 2020 Semiannual	10/6/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2021 Semiannual	4/30/2021	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2021 Semiannual	10/27/2021	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2022 Semiannual	4/20/2022	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2022 Semiannual	10/19/2022	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2023 Semiannual	4/21/2023	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2023 Semiannual	10/18/2023	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2024 Semiannual	4/26/2024	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
T-16UT															
Historical Data	9/22/1995	10 U	10 U	10 U	10 U	10 U	20 U	3 J	72	10 U	9 J	10 U	10 U	140	14
Historical Data	11/1/2007	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2008 Semi-annual	4/22/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2008 Semi-annual	10/23/2008	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2009 Semi-annual	4/23/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2009 Semi-annual	10/15/2009	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Spring 2010 Semi-annual	4/23/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
T-16UTR															
Fall 2010 Semi-annual	11/4/2010	5 U	5 U	5 U	10 U	10 U	20 U	5 U	16	5 U	5 U	5 U	5 U	18	10
Spring 2011 Semi-annual	4/11/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	16	5 U	5 U	5 U	5 U	11	11
Fall 2011 Semi-annual	10/18/2011	5 U	5 U	5 U	10 U	10 U	20 U	5 U	13	5 U	5 U	5 U	5 U	34	5 U
Spring 2012 Semi-annual	4/11/2012	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	7	5 U
Fall 2012 Semiannual	10/11/2012	Not Sampled Due to Inadequate Yield from Well													
Spring 2013 Semiannual	4/18/2013	Not Sampled Due to Inadequate Yield from Well													
Fall 2013 Semiannual	10/24/2013	Not Sampled Due to Inadequate Yield from Well													
Spring 2014 Semiannual	4/13/2014	Not Sampled Due to Inadequate Yield from Well													
Fall 2014 Semiannual	10/21/2014	Not Sampled Due to Inadequate Yield from Well													
Spring 2015 Semiannual	4/28/2015	Not Sampled Due to Inadequate Yield from Well													
Fall 2015 Semiannual	10/6/2015	Not Sampled Due to Inadequate Yield from Well													
Spring 2016 Semiannual	5/4/2016	Not Sampled Due to Inadequate Yield from Well													
Fall 2016 Semiannual	10/6/2016	Not Sampled Due to Inadequate Yield from Well													
Spring 2017 Semiannual	4/27/2017	Not Sampled Due to Inadequate Yield from Well													
Fall 2017 Semiannual	10/20/2017	Not Sampled Due to Inadequate Yield from Well													
Spring 2018 Semiannual	4/18/2018	Not Sampled Due to Inadequate Yield from Well													
Fall 2018 Semiannual	10/19/2018	Not Sampled Due to Inadequate Yield from Well													
Spring 2019 Semiannual	4/23/2019	Not Sampled Due to Inadequate Yield from Well													
Fall 2019 Semiannual	10/22/2019	Not Sampled Due to Inadequate Yield from Well													
Spring 2020 Semiannual	4/29/2020	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2020 Semiannual	10/6/2020	Not Sampled Due to Inadequate Yield from Well													
Spring 2021 Semiannual	4/30/2021	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2021 Semiannual	10/27/2021	Not Sampled Due to Inadequate Yield from Well													
Spring 2022 Semiannual	4/20/2022	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2022 Semiannual	10/19/2022	Not Sampled Due to Inadequate Yield from Well													
Spring 2023 Semiannual	4/21/2023	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fall 2023 Semiannual	10/18/2023	Not Sampled Due to Inadequate Yield from Well													
Spring 2024 Semiannual	4/26/2024	Not Sampled Due to Inadequate Yield from Well													

Note

1. Sample results reported in ug/L.

2. Samples results above NYS Part 703 groundwater quality standards (NYSGWQS) shown in bold

3. "J" - estimated value, "U" - undetected at the MDL, "D" - dilution

TABLE 5-2
TANTALO OU-1
SUMMARY OF GROUNDWATER ELEVATIONS AND
VERTICAL GRADIENTS FOR WELLS ADJACENT TO THE TANTALO SITE

			Historical GW Elevation																																					
Well	Top of Casing Elevation	Midpoint Screened Elevation	6/1/2005	8/16/2005	4/21/2008	7/17/2008	Oct-08	Jan-09	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Oct-15	Apr-16	Oct-16	Jan-17	Apr-17	Oct-17	Apr-18	Oct-18	May-19	Oct-19	Apr-20	Oct-20	Apr-21	Oct-21	May-22	Oct-22	Apr-23	Oct-23	Apr-24
T-1UT	506.48	469.05	477.53	476.95	477.51	476.83	476.06	476.08	476.15	475.12	474.93	474.36	474.78	474.81	474.78	473.13	474.26	474.29	473.96	474.22	472.56	474.22	473.98	473.02	474.27	475.33	474.44	475.02	473.73	475.29	474.69	474.31	473.35	473.26	473.59	474.71	471.1	471.98	470.69	471.58
T-1LL	506.38	461.60	473.77	472.45	472.60		470.33			469.98	470.92	469.88	470.98	470.4	470.03	468.3	469.08	469.02	469.18	469.30		469.74	469.32	467.78	N/A	470.72	469.27	470.14	468.40	469.92	469.23	469.73	468.40	468.96	469.62	460.77	466.62	467.43	466.05	466.79
T-1LT	506.01	455.10	477.30	476.59	475.03		473.81			472.8	472.22	470.26	467.91	468.91	469.44	468.91	468.68	469.13	467.21	466.06		464.26	465.8	464.63	N/A	464.99	463.07	461.30	460.17	460.88	460.32	460.20	459.86	458.93	457.36	457.53	458.30	458.10	458.02	457.93
T-1SB	503.56	445.90	462.83	461.47	459.52	457.09		457.64	458.66	455.75	457.66	456.34	458.56	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	454.96	N/A	455.30	N/A	N/A	N/A	453.1	454.92	454.50	455.28	452.33	N/A ¹⁶	N/A ¹⁶	N/A ¹⁶	N/A ¹⁶	N/A ¹⁶	N/A ¹⁶	N/A ¹⁶	N/A ¹⁶
T-5UT ¹⁵	501.44	471.20	475.76	476.67	477.22	476.35	475.7	475.38	474.97	473.79	472.79	472.44	471.59	471.83	471.34	470.29	470.84	471.02	471.01	470.91	471.47	470.98	470.69	N/A	466.25	N/A	N/A	N/A	470.79	476.63	479.01	474.63	473.97	473.34	473.98	473.68	470.46	470.32	470.14	470
T-5SB ¹⁵	501.53	442.80	452.17	450.02	457.13	457.76	455.52	455.51	456.51	456.01	453.75	452.73	454.45	452.79	453.61	452.23	452.73	452.63	454.36	453.51	453.04	454.31	455.06	N/A	448.2	N/A	N/A	N/A	450.79	452.27	457.34	461.42	454.69	454.68	454.87	456.52	452.23	452.63	451.08	451.35
			Vertical Hydraulic Gradients ¹⁵																																					
T-1UT / T-1LL			0.50	0.60	0.66		0.77			0.69	0.54	0.60	0.51	0.59	0.64	0.65	0.70	0.71	0.64	0.66		0.60	0.63	0.70	N/A	0.62	0.69	0.66	0.72	0.72	0.73	0.61	0.66	0.58	0.53	1.87	0.60	0.61	0.62	0.64
T-1UT / T-1LT			0.02	0.03	0.18		0.16			0.17	0.19	0.29	0.49	0.42	0.38	0.30	0.40	0.37	0.48	0.58		0.71	0.59	0.60	N/A	0.74	0.82	0.98	0.97	1.03	1.03	1.01	0.97	1.03	1.16	1.23	0.92	0.99	0.91	0.98
T-1UT / T-1SB			0.63	0.67	0.78	0.85		0.80	0.76	0.84	0.75	0.78	0.70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.82	N/A	0.82	N/A	N/A	0.89	0.88	0.87	0.82	0.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T-5UT / T-5SB			0.83	0.94	0.71	0.65	0.71	0.70	0.65	0.63	0.67	0.69	0.60	0.67	0.62	0.64	0.64	0.65	0.59	0.61	0.65	0.59	0.55	N/A	0.64	N/A	N/A	N/A	0.70	0.86	0.76	0.47	0.68	0.66	0.67	0.60	0.64	0.62	0.67	0.66

All elevations in feet MSL.

Notes:

* positive (+) vertical gradients are downward vertical gradients

October 2009 and April 2010 gradient calculations for T-1UT/T-1LT have been corrected from those previously presented.

1. October 2008 data; T-5 cluster measured on 10/9/2008, T-1 cluster measured on 10/28/2008

2. January 2009 data; T-1 cluster measured on 1/12/2009, T-5 cluster measured on 1/19/2009

3. April 2009 data; T-1 cluster measured on 4/7/2009, T-5 cluster measured on 4/9/2009

4. October 2009 data; T-1 overburden cluster measured on 10/14/2009, T-1SB measured on 10/8/2009, T-5 cluster measured on 10/12/2009

5. April 2010 data; T-1 overburden cluster measured on 4/23/2010, T-1SB measured on 4/14/2010, T-5 cluster measured on 4/14/2010

6. October 2010 data; T-1 overburden cluster measured on 10/19/2010, T-1SB measured on 10/10/2010, T-5 cluster measured on 10/18/2010

7. April 2011 data; T-1 overburden cluster measured on 4/1/2011, T-1SB measured on 5/31/2011, T-5 cluster measured on 4/25/2011

8. October 2011 data; T-1 overburden cluster measured on 10/17/2011, T-1SB not measured due to well damage, T-5 cluster measured on 10/10/2011

9. April 2012 data; T-1 overburden cluster measured on 4/11/2012, T-1SB not measured due to well damage, T-5 cluster measured on 4/19/2012

10. October 2012 data; T-1 overburden cluster measured on 10/11/2012, T-1SB not measured due to well damage, T-5 cluster measured on 10/10/2012

11. April 2013 data; T-1 overburden cluster measured on 4/18/2013, T-1SB not measured due to well damage, T-5 cluster measured on 4/16/2013

12. October 2013 data; T-1 overburden cluster measured on 10/23/2013, T-1SB not measured due to well damage, T-5 cluster measured on 10/17/2013

13. April 2014 data measured on 4/13/2014, T-1SB not measured due to well damage

14. April 2015 data not available for T-1 well cluster

15. Well casings cut off, starting with April 2016 data. New top of casing elevations T-5UT = 496.71, T5-SB = 495.42

16. Bent well casing, unable to measure.

TABLE 5-3
TANTALO OU-1
LEACHATE MONITORING RESULTS, DETECTED PARAMETERS

Compound	Unit	10/30/2007	4/21/2008	10/22/2008	4/22/2009	10/15/2009	4/23/2010	10/20/2010	4/11/2011	10/18/2011 ¹	1/23/2012 ¹	4/10/2012	10/15/2012	4/19/2013	10/24/2013	4/14/2014
2-Butanone	ug/L	20 U	23	200	10 U	11	50 U	24	10		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	ug/L	20 U	31	59	45	79	50 U	49	42		10 U	18	33	10 U	18	10 U
Acetone	ug/L	40 U	60	560 D	100	150	130	110	100		10 U	46	100	10 U	43	15
Ammonia as nitrogen	mg/L	87.4	97.6	171	55.9	58.7	55.1	60.7	41.9	31		33.8	40.1	18.5	17.9	11
Benzene	ug/L	12	25	5.6	5 U	5 U	25 U	5 U	5 U		5 U	5 U	5 U	5 U	5 U	5 U
Biochemical oxygen demand	mg/L	11.4	22	686	17.9	25.9	68.7	37.6	18	11.6		13.4	13.3	7.1	5.3	3
Bromide	mg/L	8.01	6.8	12.1	6.6	9	7.6	7.4	5	4.1		4.9	6.5	2.4	3	1
Calcium	mg/L	316	232	294	301	260	296	273	264	259		260	234	22	250	218
Chemical oxygen demand	mg/L	313	288	1090	257	303	636	264	161	144		161	180	67.5	72.4	46
Chloride	mg/L	1120	1110	1620	988	1100	1020	981	889	655		703	855	405	484	258
Chloroethane	ug/L	10 U	5.3	16	25	13	25 U	17	10		5 U	8.4	5 U	5 U	5 U	5 U
Cis-1,2-dichloroethene	ug/L	10 U	5 U	62	140	100	74	49	57		6.1	37	7.7	5.9	5 U	5 U
Conductivity	umhos/cm	7125	6315	7855	4725	5131	5371	4879	4340	3721		3965	4158	2853	3218	2303
Ethylbenzene	ug/L	10 U	5 U	9	5 U	5 U	25 U	5 U	5 U		5 U	5 U	5 U	5 U	5 U	5 U
Iron	mg/L	93.8	18.4	5.97	9.1	10.1	27.3	9.69	12	6.46		6.29	16.6	2.51	1.73	2.18
Magnesium	mg/L	118	120	142	145	134	153	131	142	123		131	120	105	114	89.8
Manganese	mg/L	0.591	0.392	0.454	0.817	0.679	0.805	0.618	0.595	0.464		0.588	0.43	0.248	0.275	0.194
Oxidation-reduction potential	mv	25	23	-14	-5	-52	-37	-12	-64	0		-26	12	-33	29	108
pH	S.U.	6.72	6.5	6.93	6.77	6.67	6.89	6.97	6.53	6.76		6.7	6.76	7.01	7.26	7.48
Potassium	mg/L	84	84	209	57	60.9	50.8	51.2	34.9	33.4		35.5	46	20	25.3	15.5
Sodium	mg/L	514	587	825	452	536	512	479	395	345		350	439	25.3	261	151
Sulfate	mg/L	291	208	64.5	436	232	289	335	456	477		482	383	446	588	489
Total alkalinity	mg/L	796	894	1150	782	900	860	802	742	640		696	740	510	537	428
Total dissolved solids	mg/L	2980	2870	4030	2670	2800	2760	2720	2620	2370		2400	2490	1870	1960	1340
Total hardness	mg/L	1240	1270	1360	1400	1280	1380	1240	1280	1120		1290	1100	970	960	960
Total kjeldahl nitrogen	mg/L	90.4	98.2	165	0.84	62	61.3	57.9	40.3	33.9		36	44.8	19.1	19.4	12
Total organic carbon	mg/L	60.1	71	300	56.7	67.1	59.6	64.7	46.2	37.3		36.9	47.5	24.5	24.4	19
Total phenolics	mg/L	0.019	0.0074	0.682	0.0084	0.032	0.05 U	0.012	0.0112	0.0096		0.021	0.0213	0.0142	0.0163	0.005 U
Total suspended solids	mg/L	132	42.2	20	18.4	20	51.6	23.6	79.4	14.6		12.4	46.4	7.6	38.6	11
Trichloroethene	ug/L	10 U	7.1	52	5 U	9.3	25 U	5 U	5 U		26	9.6	5 U	18	9.1	5 U
Turbidity	NTU	39.1	4.8	40.5	20	17.3	15.2	27	57	26.5		26.1	37.9	12.6	27.4	21
Vinyl chloride	ug/L	10 U	5 U	7.2	18	8.4	25 U	5 U	6.5		5 U	5.1	5 U	5 U	5 U	5 U

Note:
1. VOC data for Fall 2011 was not collected due to sampling error. VOC data has been reported for a resample, collected on 1/23/12.
2. * Analysis performed out of holdtime
3. VOC data for Spring 2023 was not collected due to sampling error on 4/21/2023. VOC data has been reported for a resample, collected on 4/28/2023.

TABLE 5-3
TANTALO OU-1
LEACHATE MONITORING RESULTS, DETECTED PARAMETERS

Compound	Unit	10/21/2014	4/28/2015	10/7/2015	5/4/2016	10/6/2016	5/23/2017	10/31/2017	4/18/2018	10/19/2018	4/23/2019	10/22/2019	4/29/2020	10/6/2020	4/29/2021	10/27/2021	4/20/2022	10/19/2022	4/21/2023 ³	10/18/2023	4/25/2024
2-Butanone	ug/L	10 U	52	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	950 D	100 U	100 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	100 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	24	16	19	10 U	10 U	10 U	10 U	10 U	10 U	10 U	760 D	100 U	100 U	100 U	10 U	10 U	14	10 U	12	10 U
Ammonia as nitrogen	mg/L	23.2	17	20.2	0.05 U	9.32	0.084	7.02	0.257	6.48	3.31	73.9	14.1	26.3	9	3.04	3.56	17.2	14.7	17.5	3.35
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U
Biochemical oxygen demand	mg/L	4.8	25.7	4.6	2.5	2.8	2 U	2 U	2 U	13.7	6.4	75 *	3.2	10.7	5.1	2.8	2.4	3.3	5	2.9	2
Bromide	mg/L	2.8	1.7	3.5	1 U	1.3	1 U	1 U	1 U	1 U	1 U	6.1	2	2.7	1.3	1 U	1 U	2.7	1.7	2.8	1 U
Calcium	mg/L	252	306	236	194	196	166	204	120	203	155	198	168	211	186	198	162	215	214	205	397
Chemical oxygen demand	mg/L	87.1	551	74.6	36.5	37.8	14.4	36.8	11.1	84.2	43.4	286	44	174	34	14.8	14.5	64.4	56	88.5	201
Chloride	mg/L	543	212	543	159	243	37.8	155	6.9	138	52.5	534	223	576	210	76.4	79.3	386	223	389	80.8
Chloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U
Cis-1,2-dichloroethene	ug/L	5 U	5 U	5 U	7.9	5 U	5.8	5 U	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U
Conductivity	umhos/cm	3520	2196	3242	1936	2065	1227	1734	840	1517	1181	3232	1894	3168	1846	1520	1372	2863	2135	2787	1478
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U
Iron	mg/L	3.53	32.8	2.21	2.07	1.62	1.22	2.82	0.64	2.88	6.54	6.96	1.58	8.44	5.47	6.01	2.06	4.5	8.66	2.33	925
Magnesium	mg/L	123	72.2	105	78.5	78	63.7	75.5	41.9	74	56.3	73.8	71.9	108	78	65.6	62.1	109	80.7	104	95.4
Manganese	mg/L	0.381	0.615	0.329	0.189	0.223	0.038	0.224	0.02	0.084	0.079	0.228	0.21	0.579	0.336	0.367	0.216	0.546	0.466	0.47	2.78
Oxidation-reduction potential	mv	12	-83	48	-22	85	41	-2	83	-95	-54	-87	-14	-77	21	-23	9	-17	-19	-154	71
pH	S.U.	7.26	6.75	6.69	7.19	7.51	7.4	7.02	7.33	7.39	7.25	6.87	6.85	7.01	6.64	6.77	6.98	6.88	6.75	7.21	6.75
Potassium	mg/L	29.9	26	26.1	11.8	14.8	4.6	18.6	4.1	12.2	8.3	60.1	16.1	28.8	11.8	8.2	6.8	19.2	14.9	19.8	40 U
Sodium	mg/L	335	100	313	107	144	30.8	136	8.2	68	28.4	263	116	277	113	48.5	47.7	217	116	222	54
Sulfate	mg/L	494	449	395	363	404	292	318	136	276	144	164	208	334	238	290	184	379	310	318	240
Total alkalinity	mg/L	636	560	609	468	373	391	496	304	414	426	739	472	634	560	477	487	647	602	649	531
Total dissolved solids	mg/L	2160	945	2010	1210	1310	944	1110	521	1190	751	1750	1090	1950	1170	1030	900	1800	1340	1700	970
Total hardness	mg/L	1140	996	1020	809	811	677	821	473	813	618	798	715	973	785	764	660	986	867	941	1380
Total kjeldahl nitrogen	mg/L	25.1	27.6	22.1	8.94	9.8	0.37	7.93	0.46	8.1	4.37	72.8	15.7	35.3	11.6	3.9	3.84	20.9	15.6	18.8	5.27
Total organic carbon	mg/L	29.4	124	28.1	14.6	18.4	5.3	10.1	3.5	30.6	13.5	104	14.6	37.5	13.1	6.6	4.9	86.3	21.6	23.3	21.7
Total phenolics	mg/L	0.0134	0.096	0.0146	0.0069	0.0084	0.005 U	0.0058	0.005 U	0.005 U	0.005 U	0.0431	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Total suspended solids	mg/L	8.7	265	7.4	26.4	85.2	9.2	23.6	3.8	17.5	11.6	20.5	2.7	11.4	460	16	7	10	656	237	728
Trichloroethene	ug/L	5 U	5 U	5 U	5.1	5 U	26	5 U	5 U	9.9	5 U	5 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U
Turbidity	NTU	7.8	623	13.4	11.2	9.3	8.8	9.9	2	5.1	27	4.6	7.1	29.4	6.5	11.8	6.7	17.5	12	14.4	21.8
Vinyl chloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U

Note:
1. VOC data for Fall 2011 was not collected due to sampling error. VOC data has been reported for a resample, collected on 1/23/12.
2. * Analysis performed out of holdtime
3. VOC data for Spring 2023 was not collected due to sampling error on 4/21/2023. VOC data has been reported for a resample, collected on 4/28/2023.

TABLE 5-4
TANTALO OU-1
LEACHATE FLOW MONITORING

Month	Main Wet Well (gallons)
January 2008	133,335
February 2008	126,953
March 2008	139,230
April 2008	117,765
May 2008	113,202
June 2008	88,336
July 2008	72,028
August 2008	117,176
September 2008	105,140
October 2008	118,008
November 2008	102,560
December 2008	124,233
2008 Total	1,357,966
January 2009	119,052
February 2009	89,257
March 2009	106,219
April 2009	104,634
May 2009	105,757
June 2009	84,235
July 2009	75,197
August 2009	72,392
September 2009	52,944
October 2009	66,319
November 2009	39,775
December 2009	76,255
2009 Total	992,036
January 2010	80,948
February 2010	67,333
March 2010	88,032
April 2010	80,501
May 2010	75,064
June 2010	67,116
July 2010	19,411
August 2010	38,188
September 2010	19,656
October 2010	38,906
November 2010	64,164
December 2010	75,636
2010 Total	714,955
January 2011	66,447
February 2011	60,153
March 2011	77,961
April 2011	89,422
May 2011	74,328
June 2011	68,469
July 2011	39,425
August 2011	37,083
September 2011	73,027
October 2011	94,236
November 2011	96,907
December 2011	117,917
2011 Total	895,375

TABLE 5-4
TANTALO OU-1
LEACHATE FLOW MONITORING

Month	Main Wet Well (gallons)
January 2012	139,205
February 2012	78,869
March 2012	89,375
April 2012	63,742
May 2012	70,111
June 2012	55,044
Jul-12	49,545
Aug-12	56,435
Sep-12	41,207
Oct-12	73,728
Nov-12	103,630
Dec-12	234,399
2012 Total	1,055,290
Jan-13	165,224
Feb-13	71,752
Mar-13	76,922
Apr-13	117,069
May-13	87,395
Jun-13	113,827
Jul-13	193,356
Aug-13	74,183
Sep-13	68,544
Oct-13	74,531
Nov-13	142,894
Dec-13	260,000
2013 Total	1,445,697
Jan-14	333,023
Feb-14	128,407
Mar-14	286,689
Apr-14	262,822
May-14	212,794
Jun-14	71,232
Jul-14	60,006
Aug-14	97,412
Sep-14	84,568
Oct-14	61,836
Nov-14	80,167
Dec-14	476,603
2014 Total	2,155,559
Jan-15	162,671
Feb-15	42,853
Mar-15	278,876
Apr-15	506,003
May-15	89,516
Jun-15	192,047
Jul-15	120,982
Aug-15	63,411
Sep-15	54,765
Oct-15	178,309
Nov-15	178,309
Dec-15	193,315
2015 Total	2,061,057

TABLE 5-4
TANTALO OU-1
LEACHATE FLOW MONITORING

Month	Main Wet Well (gallons)
Jan-16	215,867
Feb-16	215,867
Mar-16	260,285
Apr-16	203,100
May-16	64,097
Jun-16	89,179
Jul-16	54,293
Aug-16	33,999
Sep-16	47,541
Oct-16	114,511
Nov-16	242,485
Dec-16	252,599
2016 Total	1,793,823
Jan-17	134,073
Feb-17	101,973
Mar-17	5,630
Apr-17	58,685
May-17	161,484
Jun-17	650,757
Jul-17	288,677
Aug-17	124,449
Sep-17	108,030
Oct-17	76,179
Nov-17	348,518
Dec-17	52,171
2017 Total	2,110,626
Jan-18	21,892
Feb-18	359,062
Mar-18	268,781
Apr-18	248,396
May-18	305,241
Jun-18	235,104
Jul-18	94,265
Aug-18	117,011
Sep-18	200,091
Oct-18	248,800
Nov-18	349,643
Dec-18	143,783
2018 Total	2,592,069
Jan-19	139,924
Feb-19	147,315
Mar-19	85,821
Apr-19	95,715
May-19	664,379
Jun-19	693,052
Jul-19	146,800
Aug-19	156,432
Sep-19	149,324
Oct-19	447,626
Nov-19	353,378
Dec-19	175,950
2019 Total	3,255,716
Jan-20	1,084
Feb-20	883,675
Mar-20	211,663
Apr-20	263,892
May-20	222,892
Jun-20	95,443
Jul-20	106,872
Aug-20	129,508
Sep-20	117,819
Oct-20	66,678
Nov-20	116,910
Dec-20	332,332
2020 Total	2,548,768

TABLE 5-4
TANTALO OU-1
LEACHATE FLOW MONITORING

Month	Main Wet Well (gallons)
Jan-21	268,924
Feb-21	230,341
Mar-21	257,616
Apr-21	324,849
May-21	334,534
Jun-21	158,489
Jul-21	370,224
Aug-21	216,727
Sep-21	180,480
Oct-21	383,596
Nov-21	336,385
Dec-21	314,529
2021 Total	3,376,694
Jan-22	213,674
Feb-22	143,983
Mar-22	454,711
Apr-22	342,403
May-22	140,394
Jun-22	172,503
Jul-22	108,015
Aug-22	69,012
Sep-22	242,053
Oct-22	75,033
Nov-22	85,131
Dec-22	281,763
2022 Total	2,328,675
Jan-23	676,497
Feb-23	439,326
Mar-23	672,262
Apr-23	430,675
May-23	282,597
Jun-23	113,710
Jul-23	247,221
Aug-23	79,475
Sep-23	90,759
Oct-23	76,278
Nov-23	77,276
Dec-23	52,531
2023 Total	3,238,608
Jan-24	369,445
Feb-24	196,568
Mar-24	333,146
Apr-24	430,569
May-24	117,739
Jun-24	75,485

TABLE 5-5
TANTALO SITE OPERABLE UNIT NO. 2
MONITORING AND PARAMETER SCHEDULES DURING REPORTING PERIOD

Monitoring Well	Parameter List	Schedule
IN-3S*	A	Semiannual ^a
IN-6S	A	Semiannual
IN-7S	A	Semiannual
OFFICE WELL	A	Semiannual
SE-100DBR	A	Semiannual
SE-100SBR	A	Semiannual
T-23SB and DB	A	Semiannual
T-25SB and DB	A	Semiannual
T-26SB and DB**	A	Semiannual
T-27SB and DB	A	Semiannual
T-31SB and DB	A	Semiannual
T-32SBR and DBR	A	Semiannual
T-34SB and DB	A	Semiannual
T-35DB	A	Semiannual
T-36DB	A	Semiannual
T-37SB and DB	A	Semiannual
T-38SB and DB	A	Semiannual
T-39SB	A	Semiannual
T-40SB and DB	A	Semiannual
WEX-210SB and DB	A	Semiannual
WEX-211SB	A	Semiannual
WEX-212IB	A	Semiannual
WEX-213SB	A	Semiannual

^a Semi-annual, second quarter and fourth quarter sampling.

*Well sampling suspended starting fourth quarter 2021 due to injection material present in well.

** Well sampling suspended starting first quarter 2016 due to injection material present in well. T-26SB sampled successfully since Fall 2021.

T-32DBR not sampled in Spring 2024. WEX-212IB not sampling in Fall 2023. In adequate sample volume for both wells.

Note: 1. Semi-annual monitoring of wells previously approved by NYSDEC on April 25, 2013 via electronic mail.

2. T-40SB and T-40DB added to schedule Spring 2024.

Parameter Group A:

Field Parameters

DO, Eh, pH, temperature, specific conductivity, oxidation reduction potential (ORP), manganese, ferrous iron (iron II), carbon dioxide, sulfide

Laboratory Parameters

Target Compound List VOCs, methane, ethane, ethene, antimony, cadmium, iron, lead, manganese, sulfate, total organic carbon (TOC), PFAS, 1,4-dioxane

Table 5-6
Tantalo Site Operable Unit No. 2
Total Chlorinated VOCs
Shallow Bedrock Groundwater

Well ID Sample Date Total CVOCs (µg/L)			Detected CVOCs ¹					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
Environmental Monitoring Wells:								
Inner Tier								
T-25SB	4/10/2024	209.9	U	D	D	J	J	J
T-26SB	4/10/2024	65.2	U	D	D	J	U	J
T-27SB	4/11/2024	1.16	U	U	J	U	U	J
SE-100SBR	4/11/2024	9.3	U***	U***	J	U***	U***	U***
WEX-211SB	4/11/2024	42.1	U	J	D	J	U	D
Sentinel (Outer Tier)								
T-23SB	4/9/2024	ND	U	U	U	U	U	U
T-31SB	4/11/2024	2.42	U	J	J	U	U	U
T-32SBR	4/15/2024	ND	U	U	U	U	U	U
T-34SB	4/9/2024	ND	U	U	U	U	U	U
T-37SB	4/12/2024	ND	U	U	U	U	U	U
T-38SB	4/12/2024	ND	U	U	U	U	U	U
T-39SB	4/12/2024	33.19	U	J	D	J	U	J
T-40SB	4/19/2024	ND	U	U	U	U	U	U
WEX-210SB	4/10/2024	ND	U	U	U	U	U	U
Performance (Remedy Implementation) Monitoring Wells:								
Office Well	4/10/2024	1.71	U	U	J	U	U	J
IN-3S ²	4/29/2021	6.50	U***	U***	J	U***	U***	U***
IN-6S	4/11/2024	825.40	U	J	D	J	J	D
IN-7S	4/11/2024	15.16	U	J	D	J	U	J
WEX-212IB	4/11/2024	27.02	U	D	D	J	U	J
WEX-213SB	4/11/2024	42.07	U	J	D	J	U	D
Part 360 Landfill Monitoring								
T-1SB	Oct-23	3.90	U	U	J	U	U	J
SE-106-SB	Oct-23	0.49	U	U	J	U	U	U
SE-107-SB	Oct-23	ND	U	U	U	U	U	U
SM-008SBR	Oct-23	ND	U	U	U	U	U	U
WEX-204SB	Oct-23	ND	U	U	U	U	U	U
WEX-205SB	Oct-23	0.34	U	U	J	U	U	U
WEX-206SB	Oct-23	ND	U	U	U	U	U	U
WEX-207SB	Oct-23	ND	U	U	U	U	U	U
WEX-208SB	Oct-23	ND	U	U	U	U	U	U
WEX-209SB	Oct-23	ND	U	U	U	U	U	U
WEX-214SB	Oct-23	5.10	U	U	J	U	U	J

Notes:

¹ Detected CVOCs = D, Undetected CVOCs = U, Concentration estimated = J (i.e., J qualified) and below principal organic contaminant groundwater standard of 5 ug/L.* Denotes elevated detection limit of 500 ug/L due to matrix interference ** Denotes elevated detection limit of 250 ug/L due to matrix interference *** Denotes elevated detection limit of 50 ug/L due to matrix interferences. **** Denotes elevated detection limit of 10 ug/L due to matrix interferences.

² Most recent sample. Well sampling suspended starting fourth quarter 2021 due to injection material present in well.

Table 5-7
Tantalo Site, Operable Unit No. 2
Total Chlorinated VOCs
Deep Bedrock Groundwater

Well ID Sample Date Total CVOCs (µg/L)			Detected CVOCs ¹					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
Environmental Monitoring Wells:								
Inner Tier								
T-25DB	4/10/2024	167.35	J	D	D	J	J	D
T-26DB ²	10/8/2015	196	U	J	J	U*	U*	J
T-27DB	4/15/2024	ND	U	U	U	U	U	U
T-35DB	4/11/2024	ND	U	U	U	U	U	U
SE-100DBR	4/15/2024	54.75	U	J	D	J	J	D
Sentinel (Outer Tier)								
T-23DB	4/9/2024	ND	U	U	U	U	U	U
T-31DB	4/11/2024	ND	U	U	U	U	U	U
T-32DBR	10/27/2023 ³	ND	U	U	U	U	U	U
T-34DB	4/9/2024	ND	U	U	U	U	U	U
T-36DB	4/9/2024	0.95	U	U	J	U	U	U
T-37DB	4/12/2024	ND	U	U	U	U	U	U
T-38DB	4/12/2024	ND	U	U	U	U	U	U
T-40DB	4/19/2024	ND	U	U	U	U	U	U
WEX-210DB	4/10/2024	ND	U	U	U	U	U	U

Notes:

¹ Detected CVOCs = D, Undetected CVOCs = U, Concentration estimated = J (i.e., J qualified) and below principal organic contaminant groundwater standard of 5 ug/L. * Denotes elevated detection limit of 250 ug/L due to matrix interferences.

² Most recent sample. Well sampling suspended starting first quarter 2016 due to injection material present in well.

³ Well did not recharge. No sample collected in Spring 2024.

Table 5-8
Emerging Contaminant Data
Fall 2023 and Spring 2024

SAMPLE_ID	SAMPDATE	6:2 Fluorotelomer sulfonic acid	8:2 Fluorotelomer sulfonic acid	N-Ethylperfluorooctanesulfonamide	N-Methylperfluorooctanesulfonamide	Perfluorobutanesulfonic acid	Perfluorobutanoic acid
IN-6S	10/26/2023	700	1.1 U	3.3 J	0.64 U	4 J	170
IN-6S	4/11/2024	110	1.1 U	1.5 U	0.64 U	0.35 U	140
IN-7S	10/26/2023	1.9 J	1.1 U	1.5 U	0.64 U	3.3 J	22
IN-7S	4/11/2024	1.9 U	1.1 U	1.2 U	0.79 U	0.35 U	210
Office Well	10/25/2023	6.2	1.1 U	1.5 U	0.64 U	5.9	38
Office Well	4/10/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	15
SE-000-SBR	4/11/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
SE-0010-DBR	4/15/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
SE-0100-DBR	10/27/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
SE-0100-SB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-23-DB	10/26/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-23-DB	4/9/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-23-SB	10/26/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-23-SB	4/9/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-25-DB	10/25/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	11
T-25-DB	4/10/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-25-DB DUP	10/25/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	11
T-25-SB	10/25/2023	9.5	1.1 U	1.5 U	0.64 U	6.2	21
T-25-SB	4/10/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	13
T-26-SB	10/26/2023	1.9 U	1.1 U	1.5 U	0.83 J	1.6 J	110
T-26-SB	4/10/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	140
T-27-DB	10/27/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-27-DB	4/15/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-27-DB DUP	10/27/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-27-SB	10/31/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-27-SB	4/11/2024	1.9 U	1.1 U	1.5 U	0.79 U	0.35 U	2.6 U
T-31-DB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-31-DB	4/11/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-31-DB-DUP	4/11/2024	1.9 U	1.1 U	1.2 U	0.79 U	0.35 U	2.6 U
T-31-SB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	6.9
T-31-SB	4/11/2024	1.9 U	1.1 U	1.2 U	0.79 U	0.35 U	2.6 U
T-32-DBR	10/27/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	4.1 J
T-32-SBR	10/26/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-32-SBR	4/15/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-34-DB	10/31/2023	1.9 U	1.1 U	1.2 U	0.64 U	0.35 U	12
T-34-DB	4/9/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-34-DB DUP	10/31/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	11
T-34-SB	10/31/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-34-SB	4/9/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-35-DB	10/25/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-35-DB	4/11/2024	1.9 U	1.1 U	1.2 U	0.64 U	0.35 U	2.6 U
T-36-DB	10/27/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-36-DB	4/9/2024	1.9 U	5	1.5 U	0.64 U	0.35 U	2.6 U
T-36-DB DUP	4/9/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-37-DB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-37-DB	4/12/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-37-SB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	6.6
T-37-SB	4/12/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	5
T-38-DB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-38-DB	4/12/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-38-DB DUP	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-38-SB	10/24/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-38-SB	4/12/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-39-SB	10/25/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	20
T-39-SB	4/12/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	15
T-39-SB DUP	4/12/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	14
T-40-DB	4/19/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-40-DB DUP	4/19/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
T-40-SB	4/19/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	11
WEX-0210-DB	10/31/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
WEX-0210-DB	4/10/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	2.6 U
WEX-0210-SB	10/31/2023	1.9 U	1.1 U	1.2 U	0.79 U	0.35 U	2.6 U
WEX-0210-SB	4/10/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	6
WEX-0211-SB	10/25/2023	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	19
WEX-0211-SB	4/9/2024	1.9 U	1.1 U	1.5 U	0.64 U	0.35 U	7
WEX-0212-IB	4/11/2024	1.9 U	1.1 U	1.2 U	0.64 U	0.35 U	2.6 U
WEX-0213-SB	10/24/2023	370	1.1 U	1.5 U	0.64 U	9.3	130
WEX-0213-SB	4/11/2024	150	1.1 U	1.5 U	0.64 U	0.35 U	89

Notes:
Results reported in ng/l
U=Not detected above detection limit
J=Report value is not above detection limit,
estimated value

Table 5-8
Emerging Contaminant Data
Fall 2023 and Spring 2024

SAMPLE_ID	SAMPDATE	Perfluorodecanesulfonic acid	Perfluorodecanoic acid	Perfluorododecanoic acid	Perfluoroheptanesulfonic acid	Perfluoroheptanoic acid	Perfluorohexanesulfonic acid	Perfluorohexanoic acid
IN-6S	10/26/2023	1.4 U	1.2 U	0.69 U	0.57 U	85	3.7 J	380
IN-6S	4/11/2024	0.62 U	1.2 U	0.69 U	0.57 U	42	0.9 U	210
IN-7S	10/26/2023	1.4 U	1.2 U	0.69 U	0.57 U	4.8	0.9 U	17
IN-7S	4/11/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	27	15
Office Well	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	8.3	0.9 U	30
Office Well	4/10/2024	1.4 U	1.2 U	0.69 U	0.57 U	5	0.9 U	23
SE-000-SBR	4/11/2024	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
SE-0010-DBR	4/15/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
SE-0100-DBR	10/27/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
SE-0100-SB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-23-DB	10/26/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-23-DB	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-23-SB	10/26/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-23-SB	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-25-DB	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	8.4
T-25-DB	4/10/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-25-DB DUP	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	7.8
T-25-SB	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	16
T-25-SB	4/10/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	15
T-26-SB	10/26/2023	1.4 U	1.2 U	0.69 U	14	1.7 U	110	7.1
T-26-SB	4/10/2024	7	1.2 U	0.69 U	0.57 U	1.7 U	130	8
T-27-DB	10/27/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-27-DB	4/15/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-27-DB DUP	10/27/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-27-SB	10/31/2023	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-27-SB	4/11/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-31-DB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-31-DB	4/11/2024	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-31-DB-DUP	4/11/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-31-SB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-31-SB	4/11/2024	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-32-DBR	10/27/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	2.3 J
T-32-SBR	10/26/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-32-SBR	4/15/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-34-DB	10/31/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-34-DB	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-34-DB DUP	10/31/2023	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-34-SB	10/31/2023	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-34-SB	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-35-DB	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-35-DB	4/11/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-36-DB	10/27/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-36-DB	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-36-DB DUP	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-37-DB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-37-DB	4/12/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-37-SB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-37-SB	4/12/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-38-DB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-38-DB	4/12/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-38-DB DUP	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-38-SB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-38-SB	4/12/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-39-SB	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	5.5	0.9 U	20
T-39-SB	4/12/2024	1.4 U	1.2 U	0.69 U	0.57 U	5	0.9 U	14
T-39-SB DUP	4/12/2024	1.4 U	1.2 U	0.69 U	0.57 U	5	0.9 U	14
T-40-DB	4/19/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-40-DB DUP	4/19/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
T-40-SB	4/19/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	9
WEX-0210-DB	10/31/2023	0.62 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
WEX-0210-DB	4/10/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
WEX-0210-SB	10/31/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
WEX-0210-SB	4/10/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
WEX-0211-SB	10/25/2023	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	16
WEX-0211-SB	4/9/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	6
WEX-0212-IB	4/11/2024	1.4 U	1.2 U	0.69 U	0.57 U	1.7 U	0.9 U	1.2 U
WEX-0213-SB	10/24/2023	1.4 U	1.2 U	0.69 U	0.57 U	50	0.9 U	200
WEX-0213-SB	4/11/2024	0.62 U	1.2 U	0.69 U	0.57 U	35	0.9 U	170

Notes:
Results reported in ng/l
U=Not detected above detection limit
J=Report value is not above detection limit,
estimated value

Table 5-8
Emerging Contaminant Data
Fall 2023 and Spring 2024

SAMPLE_ID	SAMPDATE	Perfluorononanoic acid	Perfluorooctanesulfonamide	Perfluorooctanesulfonic acid	Perfluorooctanoic acid	Perfluoropentanoic acid	Perfluorotetradecanoic acid	Perfluorotridecanoic acid	Perfluoroundecanoic acid
IN-6S	10/26/2023	0.87 U	2.1 J	14	12	820	2.6 U	1.9 U	0.97 U
IN-6S	4/11/2024	0.87 U	0.71 U	0.89 U	13	520	2.6 U	1.9 U	0.97 U
IN-7S	10/26/2023	0.87 U	0.71 U	1.8 J	10	18	2.6 U	1.9 U	0.97 U
IN-7S	4/11/2024	0.87 U	0.71 U	23	8	14	2.6 U	1.9 U	0.97 U
Office Well	10/25/2023	0.87 U	0.71 U	2.3	20	26	2.6 U	1.9 U	0.97 U
Office Well	4/10/2024	0.87 U	0.71 U	0.89 U	13	22	2.6 U	1.9 U	0.97 U
SE-000-SBR	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
SE-0010-DBR	4/15/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
SE-0100-DBR	10/27/2023	0.87 U	0.71 U	0.89 U	0.77 J	1.3 U	2.6 U	1.9 U	0.97 U
SE-0100-SB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-23-DB	10/26/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-23-DB	4/9/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-23-SB	10/26/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-23-SB	4/9/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-25-DB	10/25/2023	0.87 U	0.71 U	0.89 U	4.5	10	2.6 U	1.9 U	0.97 U
T-25-DB	4/10/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-25-DB DUP	10/25/2023	0.87 U	0.71 U	0.89 U	4	9.7	2.6 U	1.9 U	0.97 U
T-25-SB	10/25/2023	0.87 U	0.71 U	2.2	9.9	17	2.6 U	1.9 U	0.97 U
T-25-SB	4/10/2024	0.87 U	0.71 U	7	11	17	2.6 U	1.9 U	0.97 U
T-26-SB	10/26/2023	0.87 U	0.71 U	16	10	12	2.6 U	1.9 U	0.97 U
T-26-SB	4/10/2024	0.87 U	0.71 U	17	12	12	2.6 U	1.9 U	0.97 U
T-27-DB	10/27/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-27-DB	4/15/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-27-DB DUP	10/27/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-27-SB	10/31/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-27-SB	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-31-DB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-31-DB	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-31-DB-DUP	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-31-SB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	5.3	2.6 U	1.9 U	0.97 U
T-31-SB	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-32-DBR	10/27/2023	0.87 U	0.71 U	0.89 U	1.5 J	1.3 U	2.6 U	1.9 U	0.97 U
T-32-SBR	10/26/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-32-SBR	4/15/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-34-DB	10/31/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-34-DB	4/9/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-34-DB DUP	10/31/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-34-SB	10/31/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-34-SB	4/9/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-35-DB	10/25/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-35-DB	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-36-DB	10/27/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-36-DB	4/9/2024	0.87 U	0.71 U	0.89 U	5	1.3 U	2.6 U	1.9 U	0.97 U
T-36-DB DUP	4/9/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-37-DB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-37-DB	4/12/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-37-SB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	5.2	2.6 U	1.9 U	0.97 U
T-37-SB	4/12/2024	0.87 U	0.71 U	0.89 U	0.63 U	5	2.6 U	1.9 U	0.97 U
T-38-DB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-38-DB	4/12/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-38-DB DUP	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-38-SB	10/24/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-38-SB	4/12/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-39-SB	10/25/2023	0.87 U	0.71 U	0.89 U	14	19	2.6 U	1.9 U	0.97 U
T-39-SB	4/12/2024	0.87 U	0.71 U	0.89 U	17	15	2.6 U	1.9 U	0.97 U
T-39-SB DUP	4/12/2024	0.87 U	0.71 U	0.89 U	15	15	2.6 U	1.9 U	0.97 U
T-40-DB	4/19/2024	0.87 U	0.71 U	0.89 U	3	1.3 U	2.6 U	1.9 U	0.97 U
T-40-DB DUP	4/19/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
T-40-SB	4/19/2024	0.87 U	0.71 U	0.89 U	0.63 U	11	2.6 U	1.9 U	0.97 U
WEX-0210-DB	10/31/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
WEX-0210-DB	4/10/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
WEX-0210-SB	10/31/2023	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
WEX-0210-SB	4/10/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
WEX-0211-SB	10/25/2023	0.87 U	0.71 U	0.89 U	10	16	2.6 U	1.9 U	0.97 U
WEX-0211-SB	4/9/2024	0.87 U	0.71 U	0.89 U	3	8	2.6 U	1.9 U	0.97 U
WEX-0212-IB	4/11/2024	0.87 U	0.71 U	0.89 U	0.63 U	1.3 U	2.6 U	1.9 U	0.97 U
WEX-0213-SB	10/24/2023	0.87 U	0.71 U	13	16	360	2.6 U	1.9 U	0.97 U
WEX-0213-SB	4/11/2024	0.87 U	0.71 U	6	7	400	2.6 U	1.9 U	0.97 U

Notes:

Results reported in ng/l

U=Not detected above detection limit

J=Report value is not above detection limit,
estimated value

TABLE 6-1
TANTALO SITE OPERABLE UNIT NO. 2
PROPOSED MONITORING AND PARAMETER SCHEDULES DURING REPORTING PERIOD

Monitoring Well	Parameter List	Schedule
IN-3S*	A	Semiannual ^a
IN-6S	A	Semiannual
IN-7S	A	Semiannual
OFFICE WELL	A	Semiannual
SE-100DBR	A	Semiannual
SE-100SBR	A	Semiannual
T-23SB and DB	A	Semiannual
T-25SB and DB	A	Semiannual
T-26SB and DB**	A	Semiannual
T-27SB and DB	A	Semiannual
T-31SB and DB	A	Semiannual
T-32SBR and DBR	A	Semiannual
T-34SB and DB	A	Semiannual
T-35DB	A	Semiannual
T-36DB	A	Semiannual
T-37SB and DB	A	Semiannual
T-38SB and DB	A	Semiannual
T-39SB	A	Semiannual
T-40SB and DB	A	Semiannual
WEX-210SB and DB	A	Semiannual
WEX-211SB	A	Semiannual
WEX-212IB	A	Semiannual
WEX-213SB	A	Semiannual

^a Semi-annual, second quarter and fourth quarter sampling.

*Well sampling suspended starting fourth quarter 2021 due to injection material present in well.

** Well sampling suspended starting first quarter 2016 due to injection material present in well.

Note: 1.Semi-annual monitoring of wells previously approved by NYSDEC on April 25, 2013 via electronic mail.

2. T-40SB and DB added to schedule for Spring 2024 sampling event.

Parameter Group A:

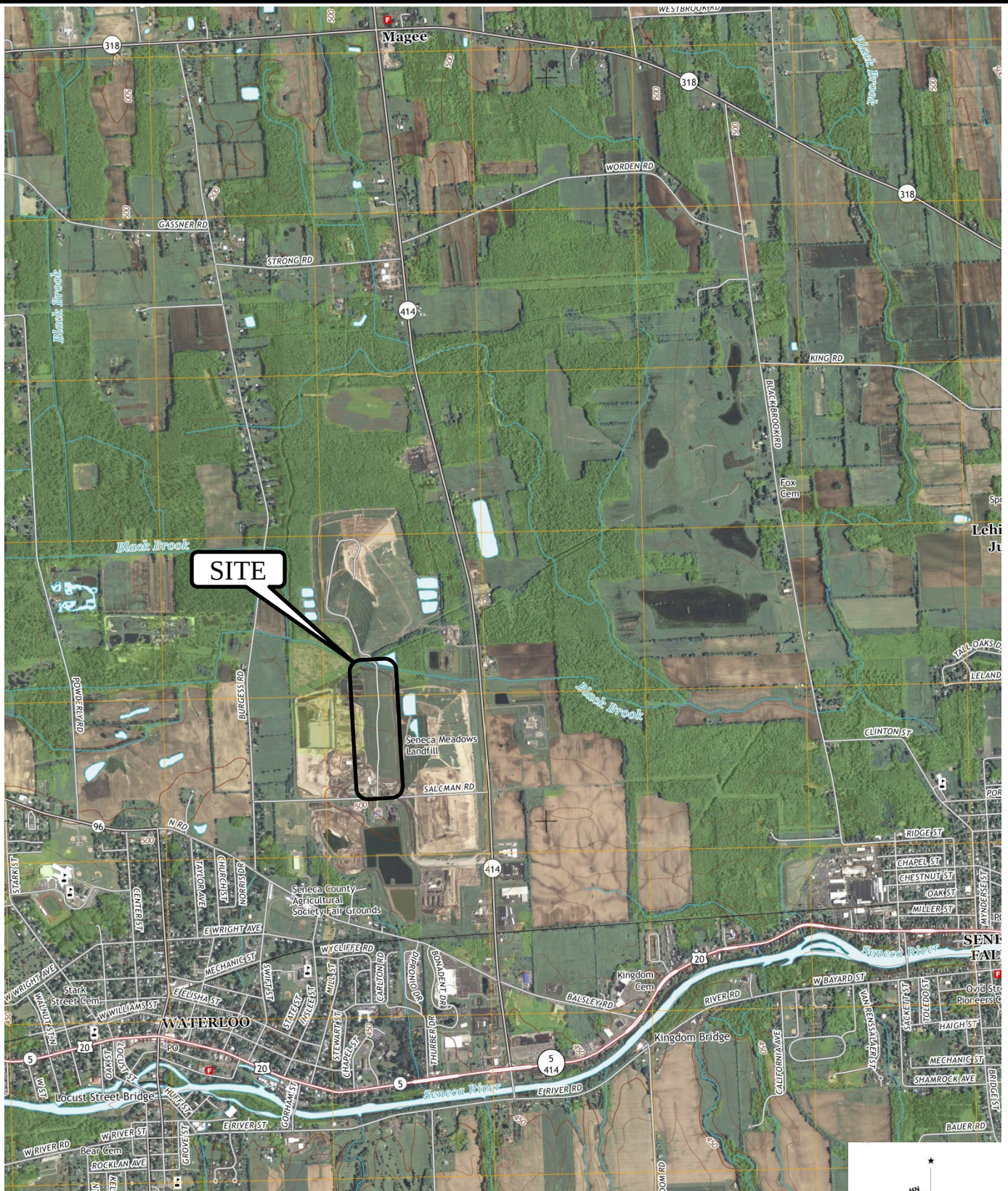
Field Parameters

DO, Eh, pH, temperature, specific conductivity, oxidation reduction potential (ORP), manganese, ferrous iron (iron II), carbon dioxide, sulfide

Laboratory Parameters

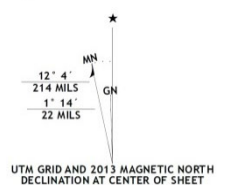
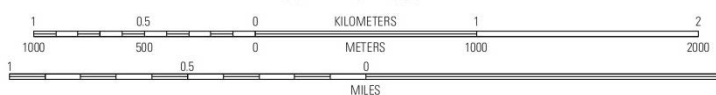
Target Compound List VOCs, methane, ethane, ethene, antimony, cadmium, iron, lead, manganese, sulfate, total organic carbon (TOC), PFAS, 1,4-dioxane

FIGURES



Source:
USGS Quadrangle, 7.5-Minute Series
Seneca Falls, Seneca County, New York
2013

SCALE 1:24 000



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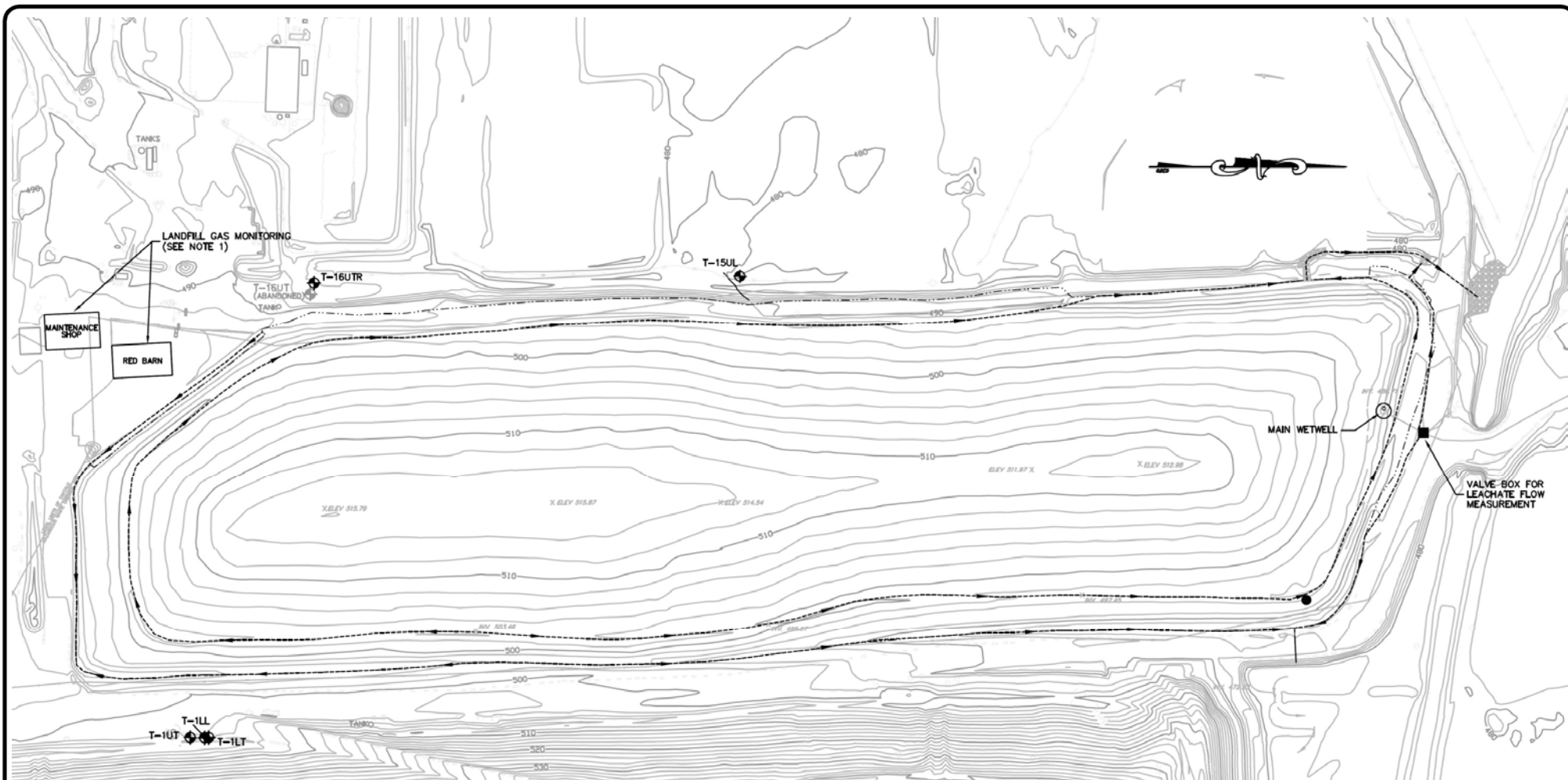
Site Location Map

Tantalo Waste Disposal Site
Periodic Review Report and Combined Annual Report No. 12

FIGURE NO.

1-1

PROJECT NO.
4243466

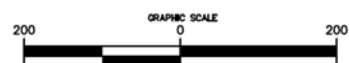


NOTES:

METHANE GAS MONITORING LOCATIONS PER OM&M PLAN SECTION 4.4.

LEGEND:

- >--- STORMWATER DRAINAGE SWALE AND DIRECTION OF FLOW
- - - - - LIMIT OF FINAL COVER
- LEACHATE SAMPLING LOCATION
- T-1UT GROUNDWATER MONITORING LOCATIONS
- LEACHATE FLOW MEASUREMENT LOCATION



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Site Monitoring Locations Plan

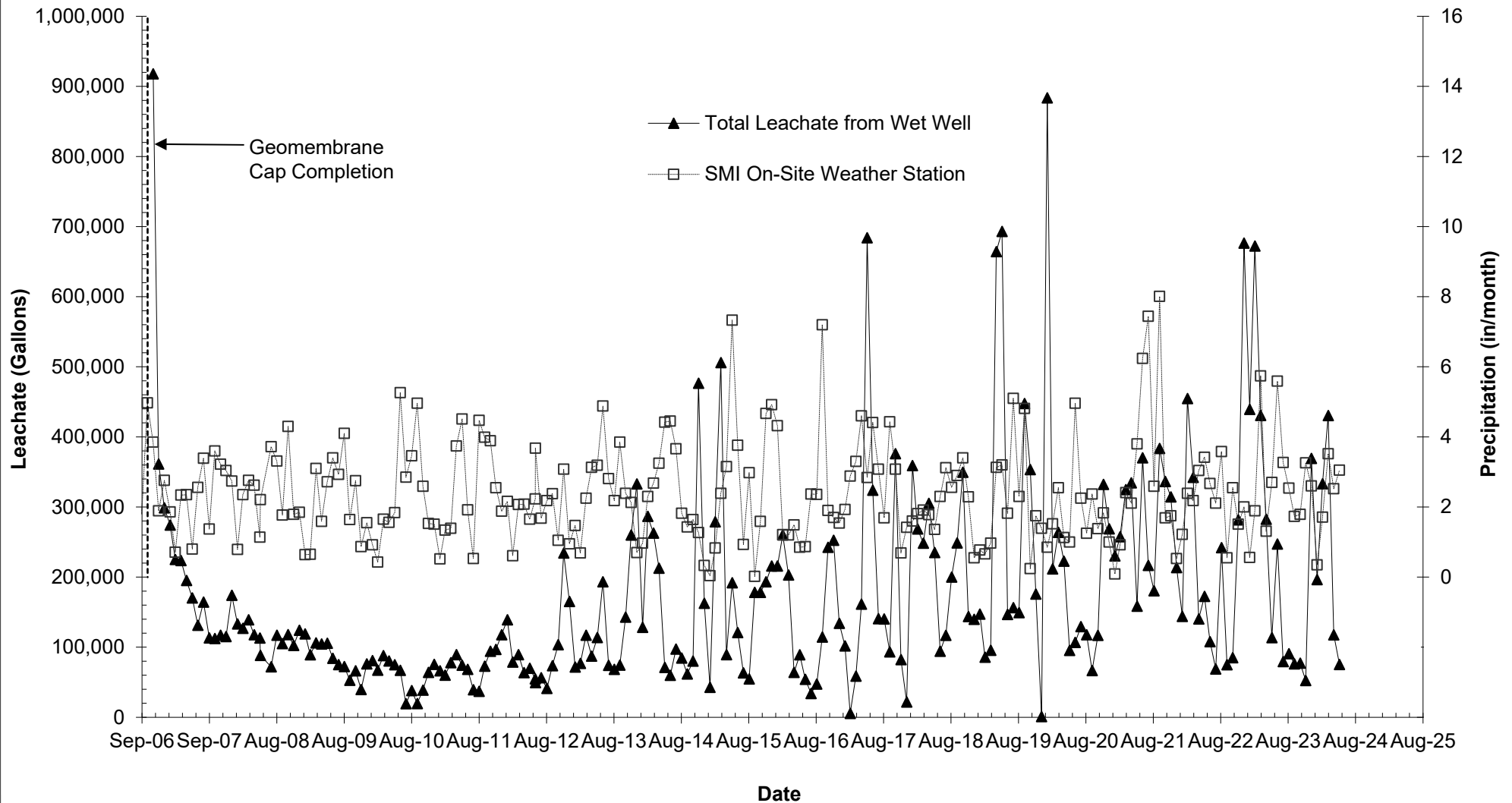
Tantalito Waste Disposal Site
Operable Unit No. 1
Periodic Review Report and Combined Annual Report No. 12

FIGURE NO.

5-1

PROJECT NO.
4243466

Main Wet Well Leachate Generation



Note:

- On-site weather station rainfall data incomplete for January and February 2010, December 2012, May 2013, and November 2015 - February 2016, supplemented with local monthly weather data.
- Predicted leachate generation based on estimated future groundwater component and decline in the existing Tantalito leachate mound. See *Semi-Annual Report No. 5* for details.



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Leachate Generation Trends

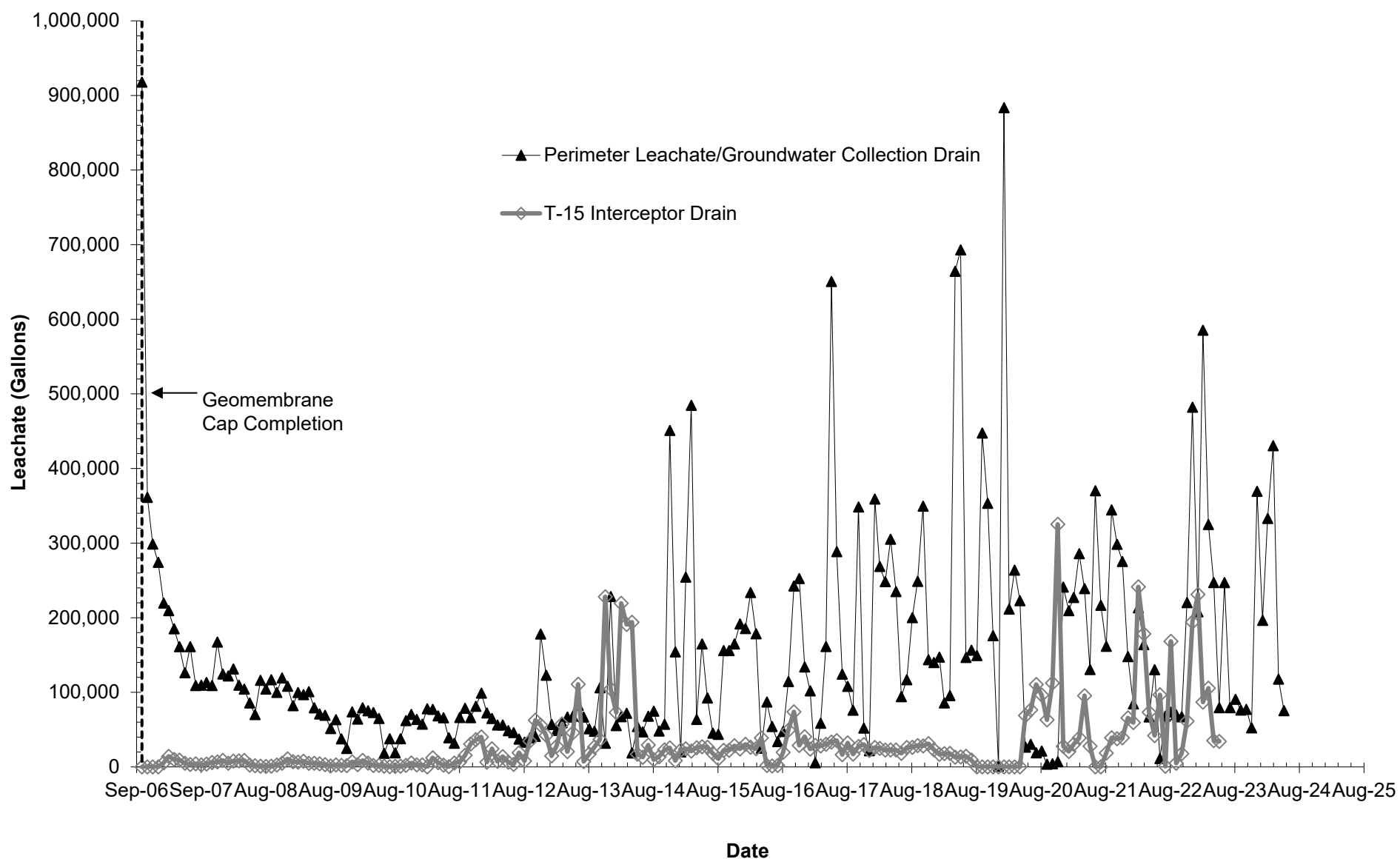
Tantalito Waste Disposal Site
Operable Unit No. 1
Periodic Review Report and Combined Annual Report No. 12

FIGURE NO.

5-2

PROJECT NO.
4243466

Tantalo Site Leachate Generation



Notes:

1. Total Tantalo leachate generation from the main wet well, as shown on Figure 5-2, is the sum of the two data sets shown on this Figure.

2. T-15 drain totalizer malfunctioned for entire reporting period. Evaluation and repairs are ongoing.



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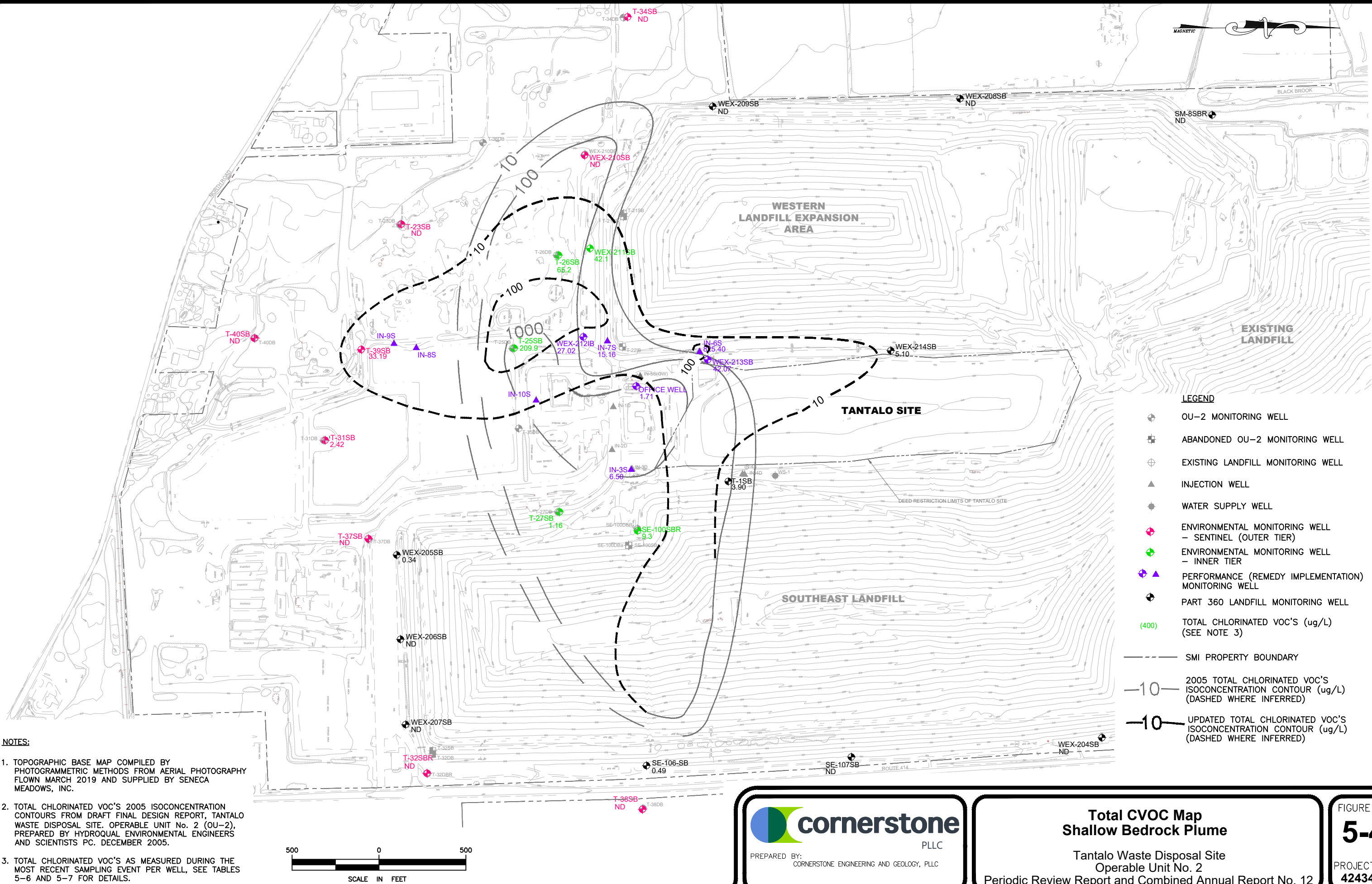
Individual Components of Overall Leachate Generation

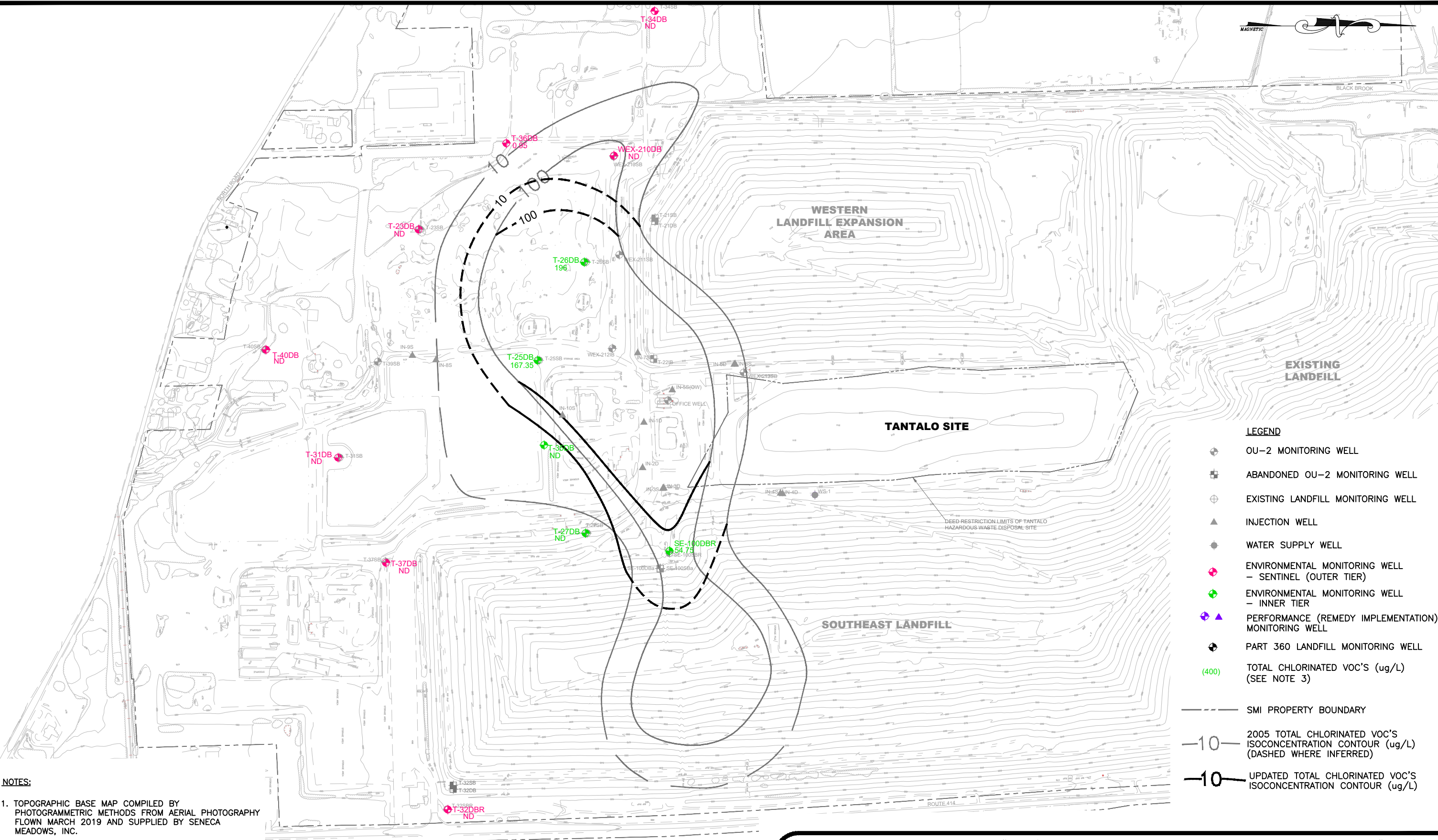
Tantalo Waste Disposal Site
Operable Unit No. 1
Periodic Review Report and Combined Annual Report No. 12

FIGURE NO.

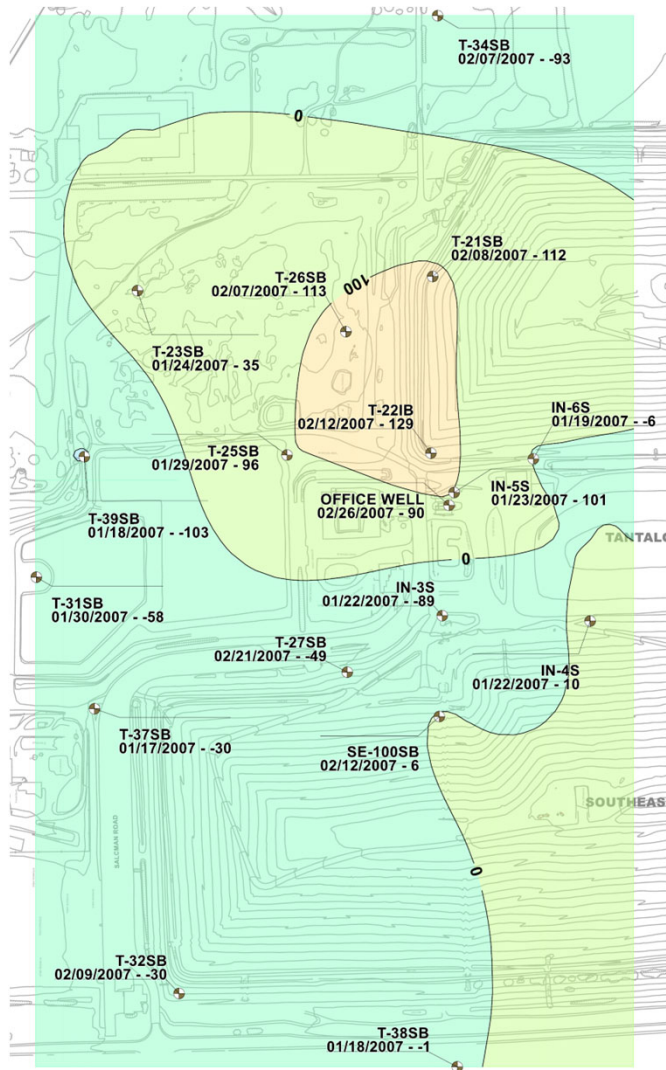
5-3

PROJECT NO.
4243466

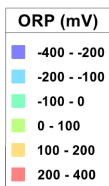
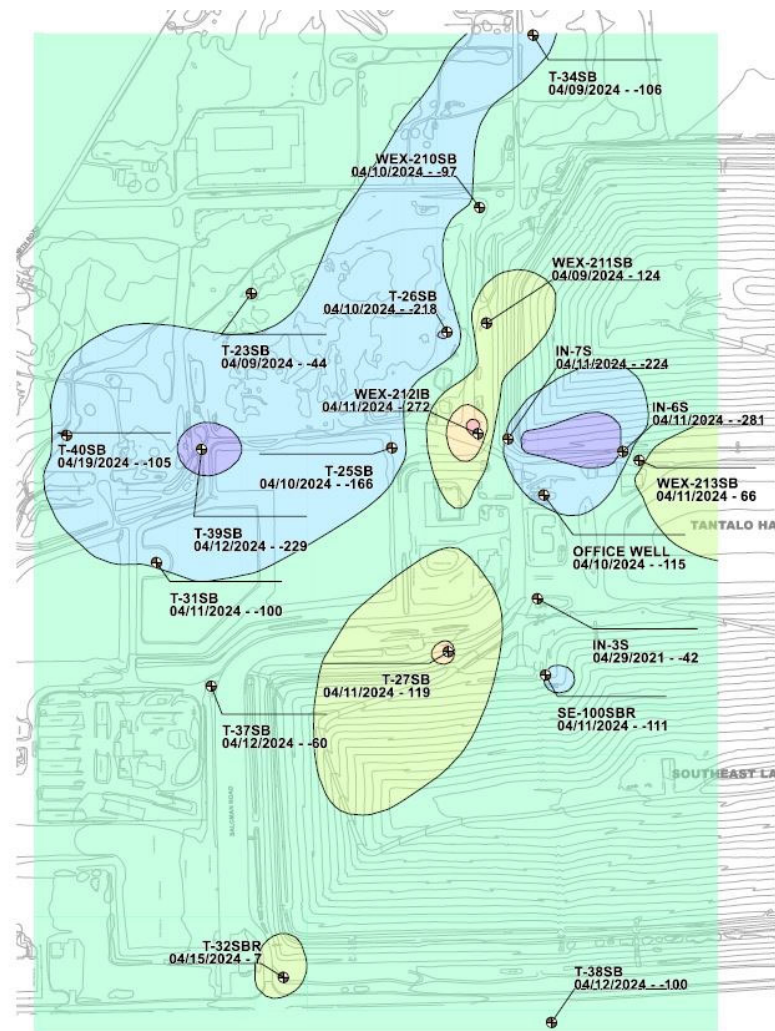




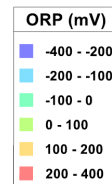
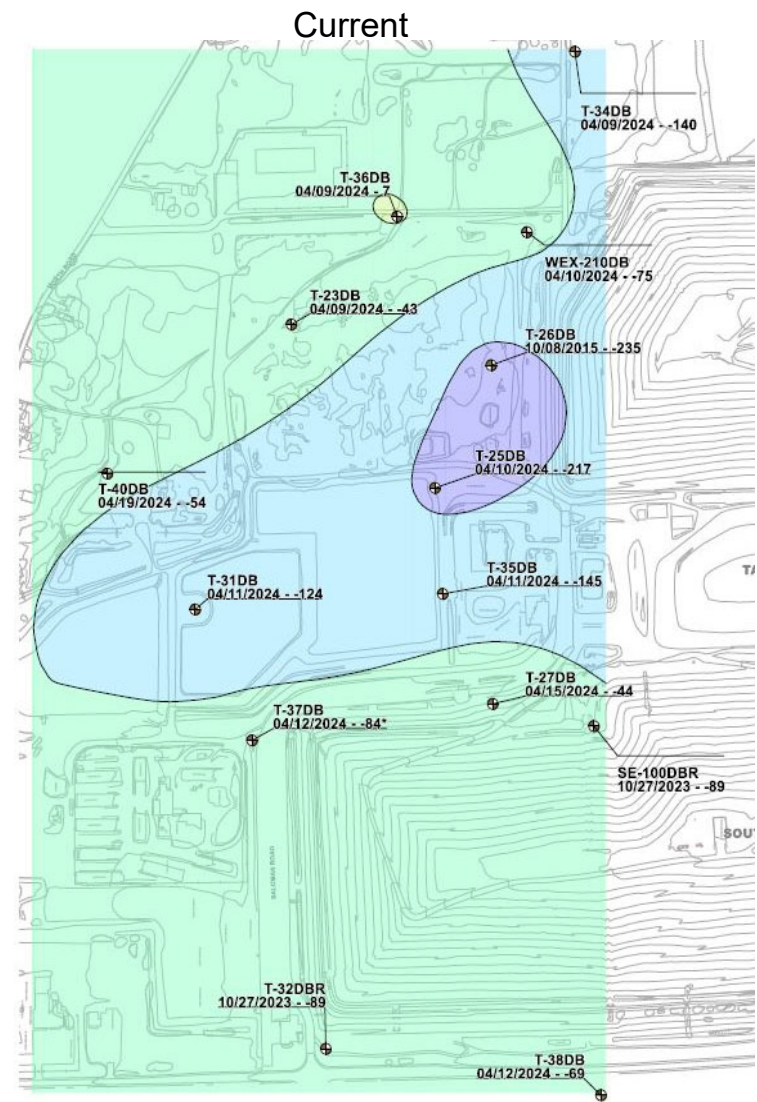
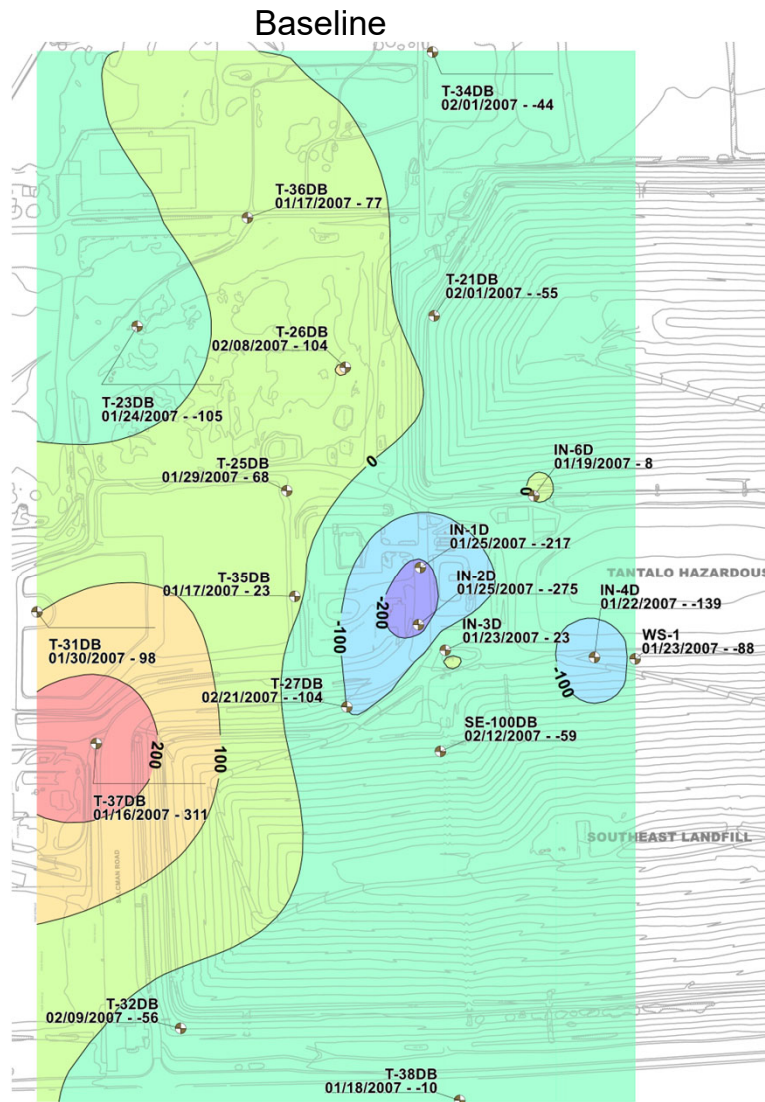
Baseline



Current

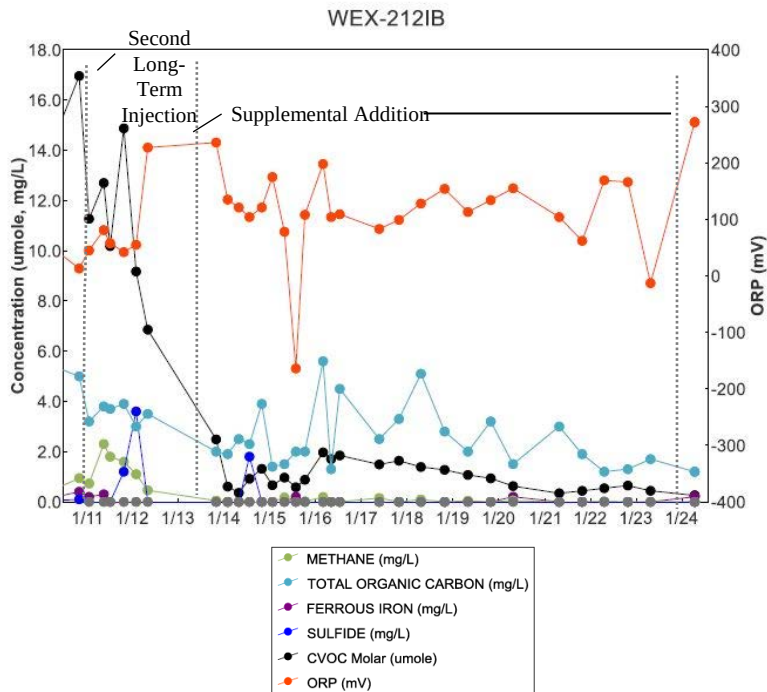


Note: Sample collection from well IN-3S was suspended starting with the fourth quarter 2021 due to injection material present in the well which prevented collection of a representative groundwater sample.

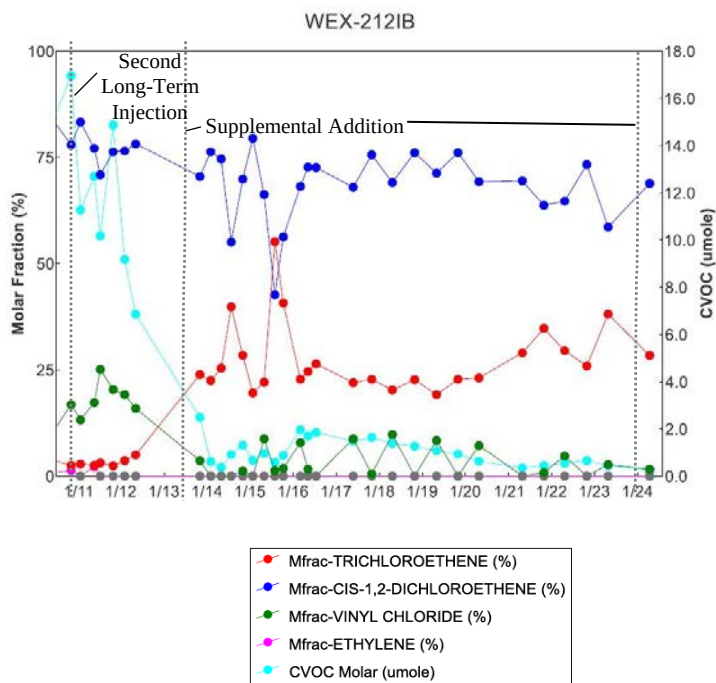


Note: Sample collection from well T-26DB was suspended starting with the first quarter 2016 due to injection material present in the well which prevented collection of a representative groundwater sample.

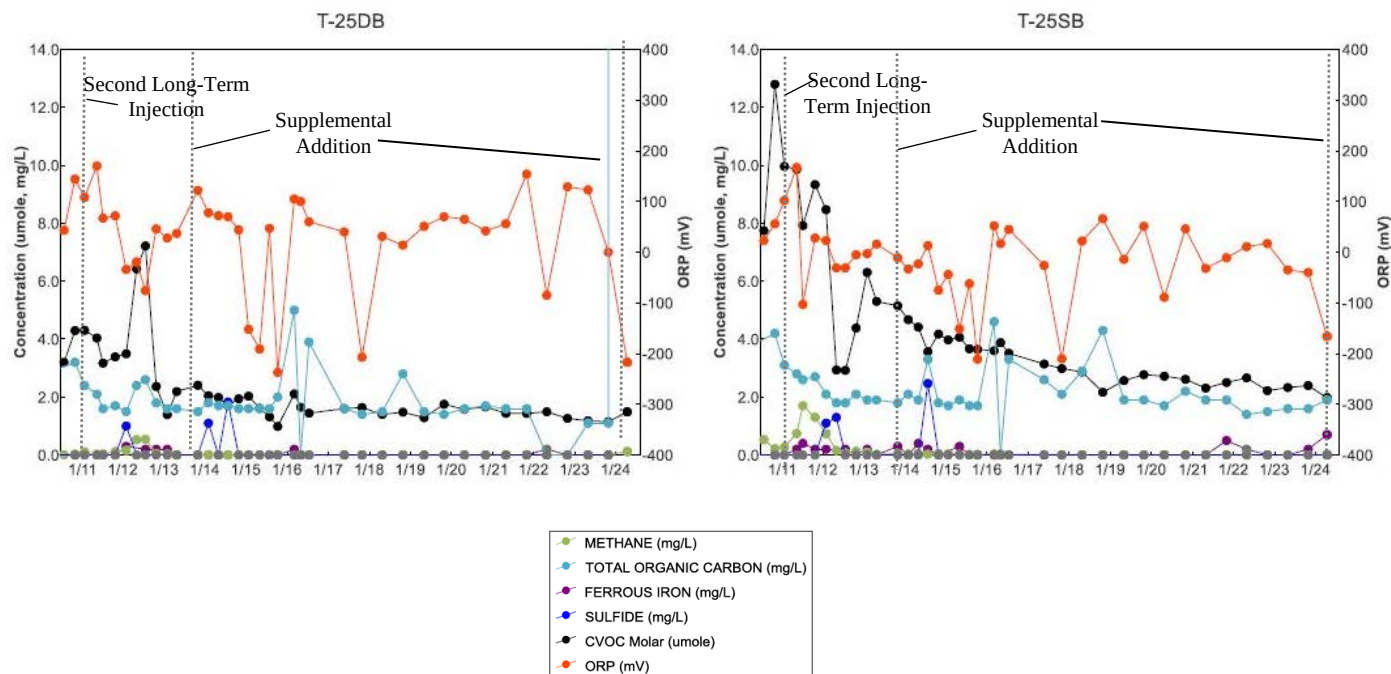
Oxidation-Reduction Potential Indicator Parameters



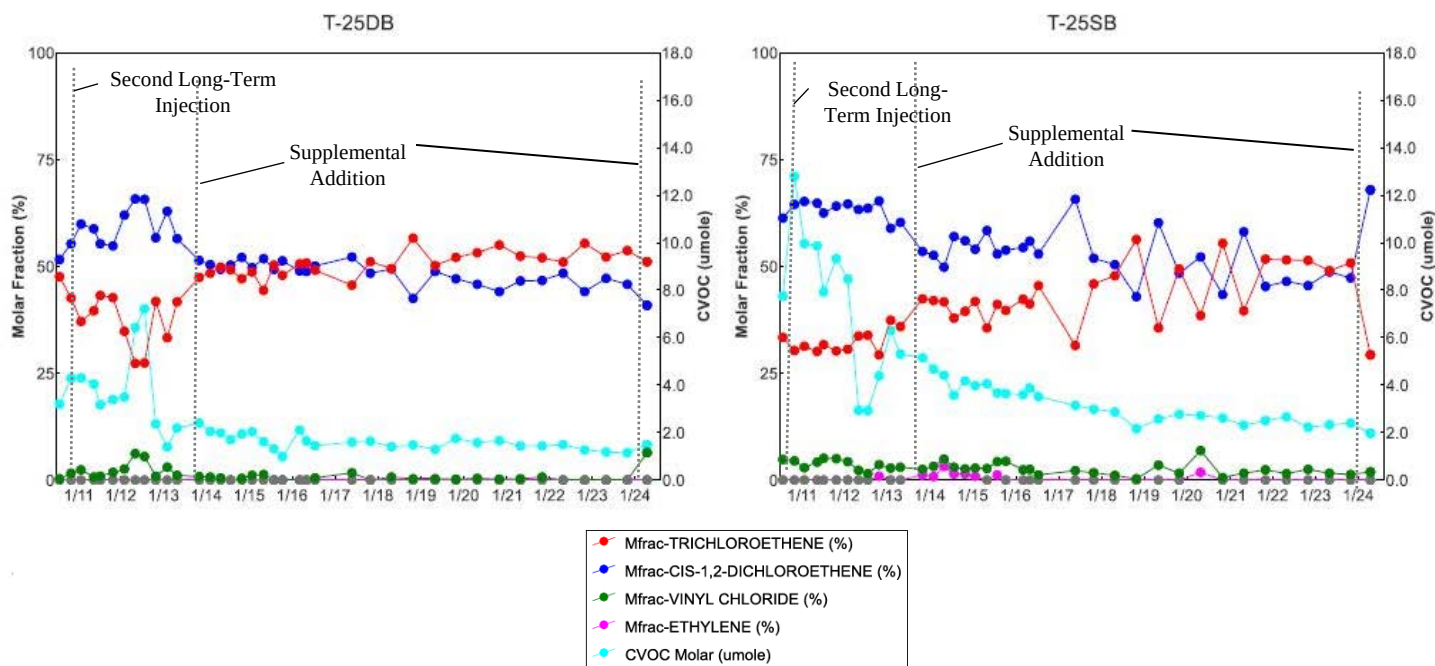
Chlorinated Solvent Molecular Fractions



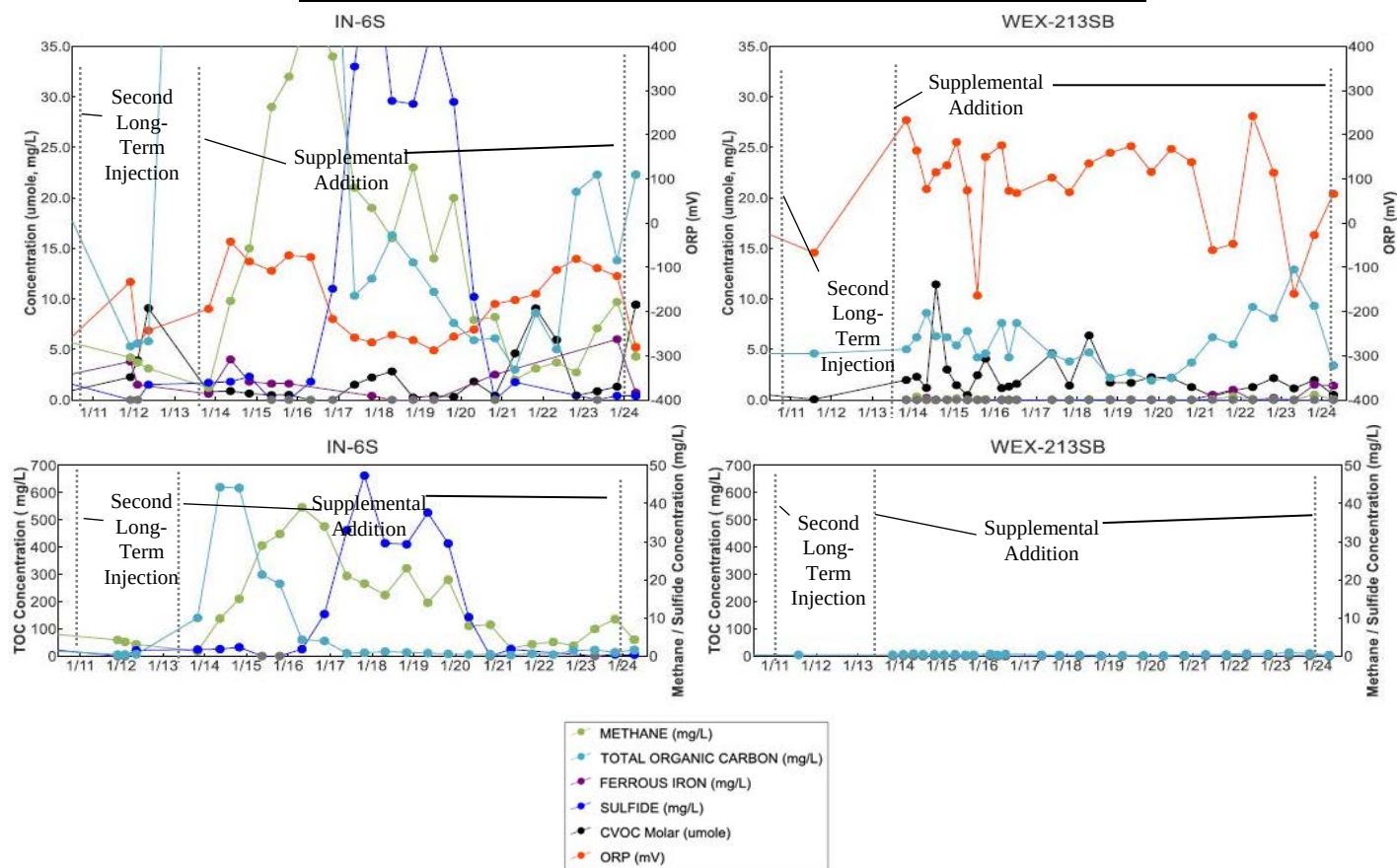
Oxidation-Reduction Potential Indicator Parameters



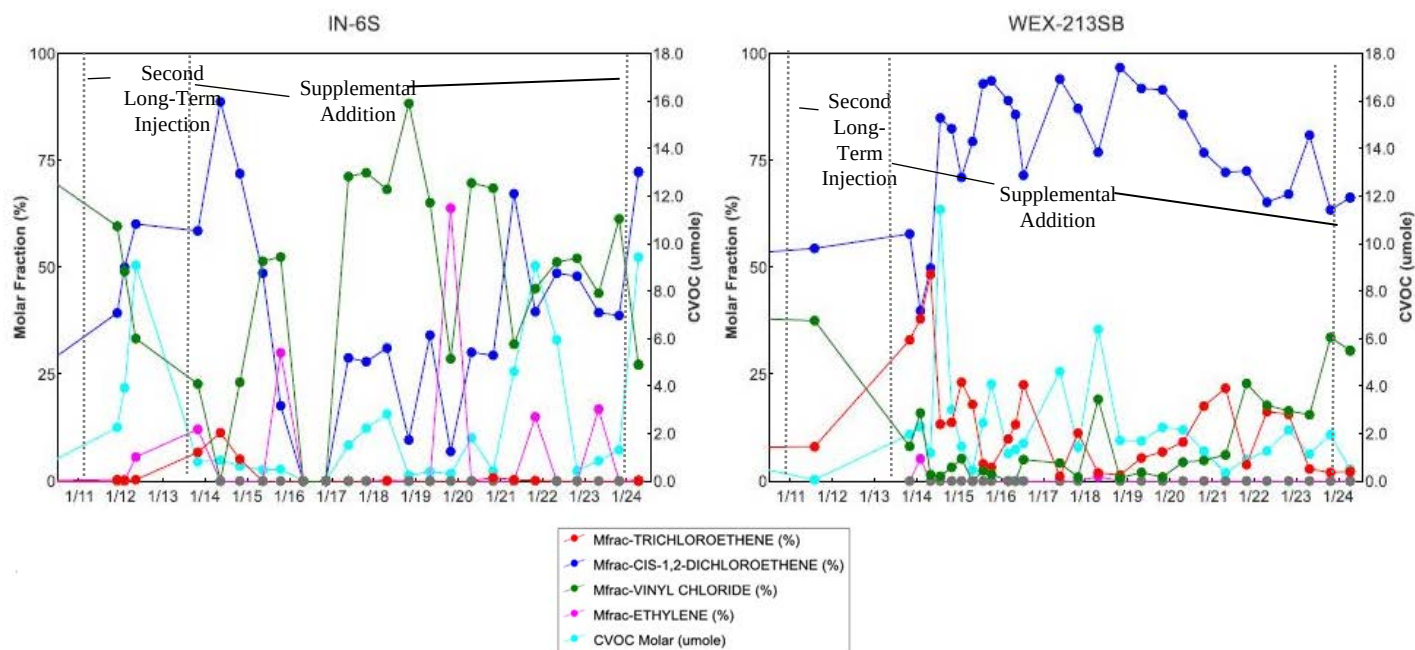
Chlorinated Solvent Molecular Fractions



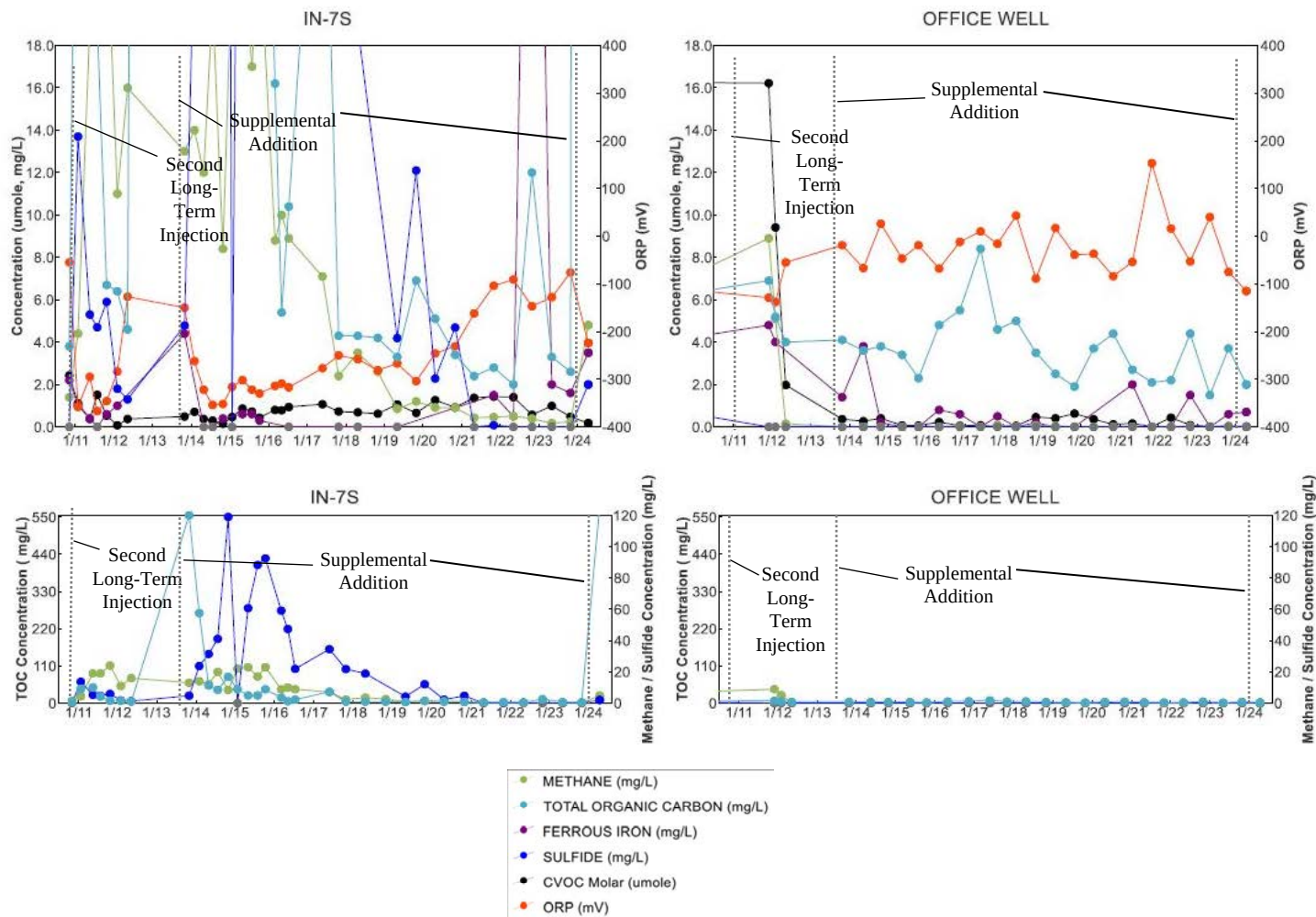
Oxidation-Reduction Potential Indicator Parameters



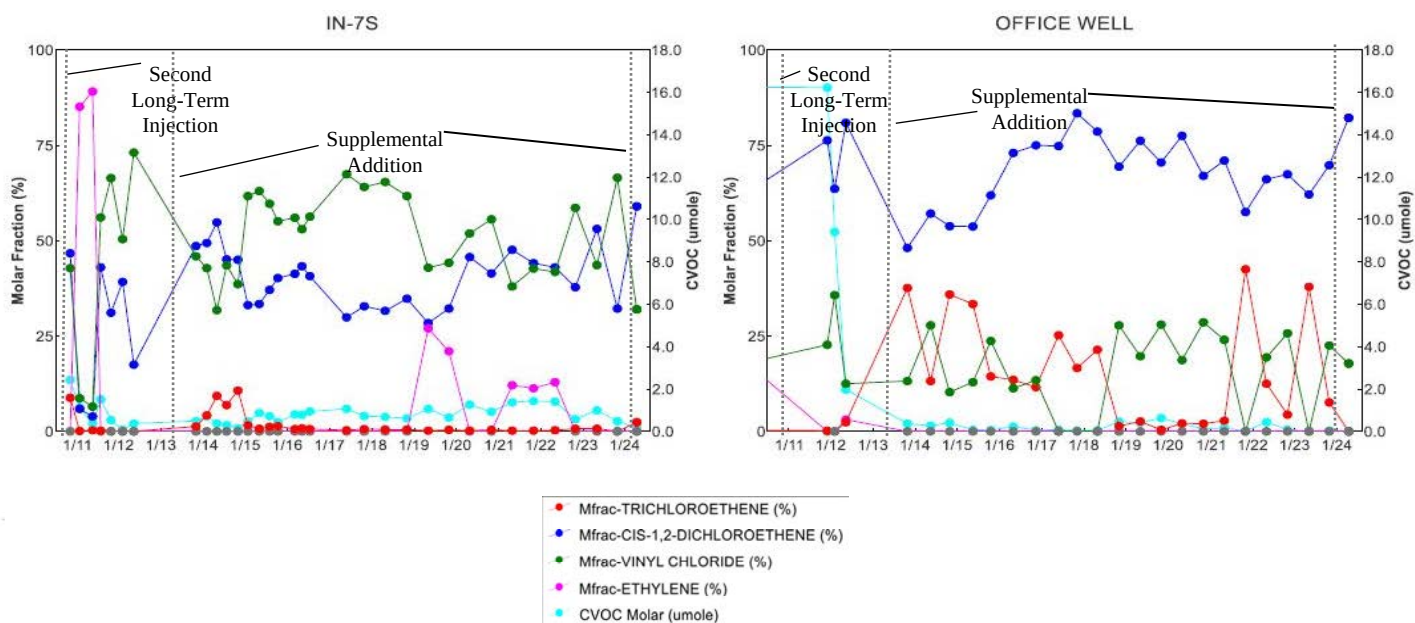
Chlorinated Solvent Molecular Fractions



Oxidation-Reduction Potential Indicator Parameters



Chlorinated Solvent Molecular Fractions



APPENDIX A
SITE INSPECTION REPORTS

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-6-23
Time:	1200 PM
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Sunny 90°F 59

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-14-23
Time:	9:00 am
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	Sunny 77°F N4

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-20-23
Time:	8:30 am
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Sunny 80°F SG

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-27-23
Time:	12:00pm
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 81°F SW 9

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	8-4-23
Time:	900 am
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 82°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	yes	yes	yes	yes	
Are there any visible signs of damage to the exterior of the tank?	NO	NO	NO	NO	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	yes	yes	yes	yes	clean, few weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	NO	NO	NO	NO	
Is all leak detection equipment in satisfactory condition?	yes	yes	yes	yes	
Is the storm water discharge sump properly maintained?	yes	yes	yes	yes	
Does the truck loadout area show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	yes	yes	yes	yes	
Are the spill kits available, properly labeled, and properly stocked?	yes	yes	yes	yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	8-10-23
Time:	1000
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	partly cloudy 70°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Few weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	8-15-23
Time:	800 am
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 69°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Some weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	8-23-23
Time:	1030 am
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 70°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	YES	YES	YES	YES	
Are there any visible signs of damage to the exterior of the tank?	NO	NO	NO	NO	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the liquid level meter in good condition and operating properly?	YES	YES	YES	YES	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	YES	YES	YES	YES	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	NO	NO	NO	NO	
Is all leak detection equipment in satisfactory condition?	YES	YES	YES	YES	
Is the storm water discharge sump properly maintained?	YES	YES	YES	YES	
Does the truck loadout area show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	YES	YES	YES	YES	
Are the spill kits available, properly labeled, and properly stocked?	YES	YES	YES	YES	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	4-1-23
Time:	11:15
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	partly cloudy 69°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Few weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage
Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System
Tank 3 - 100,000 gal Concentrate storage tank
Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	9-7-23
Time:	1100
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Clear 70°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Few weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	9-14-23
Time:	8:30
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 59°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Few weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Offline for Repairs 9/18

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	9-21-23
Time:	11:15
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	61-27 65°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynabac Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Offline

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	9-28-23
Time:	1:00
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 64°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

offline

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	10-6-23
Time:	1100
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 63°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFLINE 2

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	10-10-23
Time:	430
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 50°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFICE

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	10-18-23
Time:	11:00
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 50°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Offline

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	10-27-23
Time:	800
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 69°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Offline

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	11-2-23
Time:	10:00
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	p cloudy 39°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,500,000 gal Leachate storage tank

OFFLINE

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	11-10-23
Time:	11:00
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 52°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System *REFILL*

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	11-15-23
Time:	900
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	partly cloudy 49°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

offline

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	11-21-23
Time:	9:30
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	Fair 41°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFICE

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	11-29-23
Time:	11:00
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	clear 33°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Offline

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	12-5-23
Time:	1045
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	FOGGY 35°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	YES	YES	YES	YES	
Are there any visible signs of damage to the exterior of the tank?	NO	NO	NO	NO	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the liquid level meter in good condition and operating properly?	YES	YES	YES	YES	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	YES	YES	YES	YES	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	NO	NO	NO	NO	
Is all leak detection equipment in satisfactory condition?	YES	YES	YES	YES	
Is the storm water discharge sump properly maintained?	YES	YES	YES	YES	
Does the truck loadout area show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	YES	YES	YES	YES	
Are the spill kits available, properly labeled, and properly stocked?	YES	YES	YES	YES	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFLINE

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	12-13-22
Time:	900
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 34°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Offline

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	12-18-23
Time:	1200
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 47°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFLINE

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	12-29-23
Time:	1015
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	cloudy 40°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFIWA

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	1-3-2029
Time:	1100
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 37°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

OFFLINE

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	1-15-24
Time:	1030
Inspector Name:	S. Zimmerman
Signature:	<i>[Signature]</i>
Current Weather:	RAIN 35°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

BACK ONLINE 1-9

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	1-19-24
Time:	9:00
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Fog 22°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	1-24-24
Time:	11:00
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	RAIN 40°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	YES	YES	YES	YES	
Are there any visible signs of damage to the exterior of the tank?	NO	NO	NO	NO	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the liquid level meter in good condition and operating properly?	YES	YES	YES	YES	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	YES	YES	YES	YES	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	NO	NO	NO	NO	
Is all leak detection equipment in satisfactory condition?	YES	YES	YES	YES	
Is the storm water discharge sump properly maintained?	YES	YES	YES	YES	
Does the truck loadout area show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	YES	YES	YES	YES	
Are the spill kits available, properly labeled, and properly stocked?	YES	YES	YES	YES	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	2-2-24
Time:	1145
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	Cloudy 35°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	2-9-24
Time:	9:45
Inspector Name:	S. Zimmerman
Signature:	[Signature]
Current Weather:	cloudy 55°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	2-15-24
Time:	8:30
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	SNOW 32°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	2-23-24
Time:	1015
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	F 49° 43° F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	3-1-24
Time:	1030
Inspector Name:	S. ZIMMERMAN
Signature:	<i>[Signature]</i>
Current Weather:	p cloudy 35°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	yes	yes	yes	yes	
Are there any visible signs of damage to the exterior of the tank?	NO	NO	NO	NO	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the liquid level meter in good condition and operating properly?	yes	yes	yes	yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	yes	yes	yes	yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	NO	NO	NO	NO	
Is all leak detection equipment in satisfactory condition?	yes	yes	yes	yes	
Is the storm water discharge sump properly maintained?	yes	yes	yes	yes	
Does the truck loadout area show signs of leakage or deterioration?	NO	NO	NO	NO	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	yes	yes	yes	yes	
Are the spill kits available, properly labeled, and properly stocked?	yes	yes	yes	yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	3-6-24
Time:	9:50
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	Fair 74°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

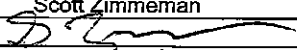
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	3-14-24
Time:	12:15
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	cloudy 51°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	properly labeled; small leaking vent on
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

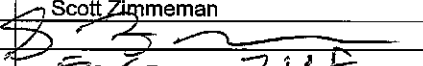
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	3-29-24
Time:	8:15
Inspector Name:	Scott Zimmeman
Signature:	
Current Weather:	Fog 31°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

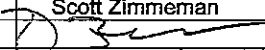
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	3-26-24
Time:	900
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	cloudy 70°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	4-4-24
Time:	8:30
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	Snow Street 33°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

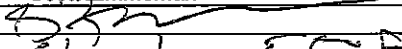
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dymatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	4-11-24
Time:	2:10
Inspector Name:	Scott Zimmeman
Signature:	
Current Weather:	Cloudy 55°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage
Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System
Tank 3 - 100,000 gal Concentrate storage tank
Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	2-17-24
Time:	1200
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	Rain 49°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

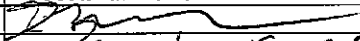
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	4-24-24
Time:	1345
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	Cloudy 50°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

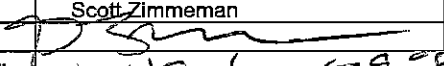
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dymatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	5-2-24
Time:	1200
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	partly cloudy 69°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

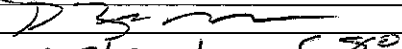
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	5-28-24
Time:	8:45
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	p cloudy 68°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

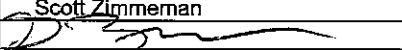
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

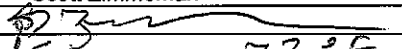
Date:	5-15-24
Time:	9:00
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	cloudy 67°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage
Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System
Tank 3 - 100,000 gal Concentrate storage tank
Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	5-22-24
Time:	300
Inspector Name:	Scott Zimmeman
Signature:	
Current Weather:	Sunny 72°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

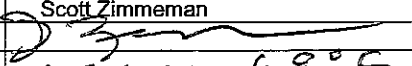
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	5-31-24
Time:	1130
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	partly sunny 69°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	6-6-24
Time:	1200
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	Sun 24 74°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Some weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dymatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	10-03-24
Time:	1130
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	Cloudy 80°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

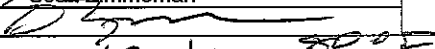
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	6-20-24
Time:	4:15
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	partly cloudy 80°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

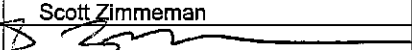
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	6-26-24
Time:	2:00
Inspector Name:	Scott Zimmeman
Signature:	
Current Weather:	Fair 71°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	weeds need to be trimmed
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

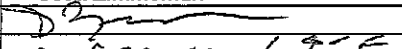
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-1-24
Time:	1100
Inspector Name:	Scott Zimmernan
Signature:	
Current Weather:	P. Sunny 67°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	Some weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

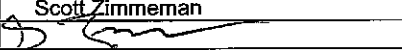
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-11-24
Time:	1145
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	19°F 70°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	yes properly labeled. small foam vent on T2
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	few weeds
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

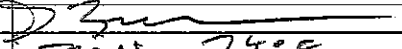
Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 3,900,000 gal Leachate storage tank

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-17-24
Time:	1000
Inspector Name:	Scott Zimmeman
Signature:	
Current Weather:	RAIN 74°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1,2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	needs
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:	started cleaning 7/12
Tank 1 - 500,000 gal Leachate storage	
Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System	
Tank 3 - 100,000 gal Concentrate storage tank	
Tank 4 - 1,900,000 gal Leachate storage tank	

Seneca Meadows, Inc. Weekly Leachate Storage Tank Inspection Form

Date:	7-25-24
Time:	900
Inspector Name:	Scott Zimmerman
Signature:	
Current Weather:	partly cloudy 87°F

	Tank 1	Tank 2	Tank 3	Tank 4	Comments
Is the tank exterior clean and properly labeled?	Yes	Yes	Yes	Yes	
Are there any visible signs of damage to the exterior of the tank?	No	No	No	No	
Do the inlet/outlet pipes, valves or flanges show signs of leakage or deterioration?	No	No	No	No	
Is the liquid level meter in good condition and operating properly?	Yes	Yes	Yes	Yes	Exterior level indicator not in use for tank 1, 2, & 3. Tank 4 does not have exterior level indicator. Interior level indicators working properly
Is the secondary containment area properly maintained and free of any apparent signs of physical contamination; e.g., dead vegetation, noticeable stains on the ground, standing oil?	Yes	Yes	Yes	Yes	
Does the secondary containment area contain any materials or debris that may affect the containment capacity or integrity of the area?	No	No	No	No	
Is all leak detection equipment in satisfactory condition?	Yes	Yes	Yes	Yes	
Is the storm water discharge sump properly maintained?	Yes	Yes	Yes	Yes	
Does the truck loadout area show signs of leakage or deterioration?	No	No	No	No	
Is the truck loadout area properly maintained and free of any materials or debris that may affect the containment capacity or integrity of the area?	Yes	Yes	Yes	Yes	
Are the spill kits available, properly labeled, and properly stocked?	Yes	Yes	Yes	Yes	

Comments:

Tank 1 - 500,000 gal Leachate storage

Tank 2 - 500,000 gal biological tank for Dynatec Leachate Treatment System

Tank 3 - 100,000 gal Concentrate storage tank

Tank 4 - 1,900,000 gal Leachate storage tank

	9/6/23	Time	Q3	9/6/23
TLO	0	1:18		
TLO2	0	1:22		
T15	0	1:25		
TLO1	0	1:30		
TLO3	0	1:32		
TLO4	0	1:34		
TLO5	0	1:36		
TLO6	0	1:38		
TLOW	0	1:41		
T001	0	1:43		
TLOE	0	1:45		
TLO10	0	1:48		
TLO8	0	1:52		
TLO9	0	1:58		

RB 1	0	MS1	0
RB 2	0	MS2	0
RB 3	0	MS3	0
RB 4	0	MS4	0
RB 5	0	MS5	0
RB 6	0	MS6	0

Q 47

LEL%

0

Q

C.

①

Q



Q

MS/ 9:40

MSZ 9:42

MS 9:44

M5C 9:46

MISS 9:48

M56 9:50

%LBL T

Q1 3/26/24

1	0	10:15
2	0	10:18
5	0	10:21
3	0	10:26
4	0	10:28
5	0	10:30
6	0	10:32
5	0	10:35
1	0	10:36
E	0	10:38
80	0	10:42
8	0	10:47
9	0	10:52

%LBL T

%LBL T

1	0	9:30	MS1	0	9:15
2	0	9:32	MS2	0	9:17
3	0	9:33	MS3	0	9:22
1	0	9:34	MS4	0	9:24
5	0	9:35	MS5	0	9:26
6	0	9:36	MS6	0	9:28

12/5/24

T	%acc		T	%acc
3:20	0	RBI	3:53	0
3:22	0	2	3:55	0
3:24	0	3	3:57	0
3:26	0	4	3:59	0
3:28	0	5	3:41	0
3:30	0	6	3:43	0
3:46	0			
3:51	0			
3:55	0			
3:59	0			
4:02	0			
4:04	0			
4:06	0			
4:07	0			
4:09	0			
4:10	0			
4:12	0			
4:16	0			
4:20	0			

Seneca Meadows Monthly Support

LDR Readings	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Sample Point:	7/5/2023	8/11/2023	9/1/2023	10/2/2023	11/1/2023	12/4/2023	1/9/2024	2/8/2024	3/4/2024	4/2/2024	5/1/2024	6/14/2024
SM-LDR-001	8.33	8.25	8.25	8.30	8.33	8.37	8.43	8.37	8.46	8.41	8.29	8.30
SM-LDR-01A	9.94	9.96	9.94	9.99	9.96	9.96	9.98	9.94	9.98	9.95	9.95	7.95
SM-LDR-002	8.22	8.28	8.29	8.23	8.90	8.23	8.24	8.65	8.19	8.25	8.37	8.25
SM-LDR-004	8.53	7.83	8.39	8.33	8.46	8.62	8.92	9.05	9.15	8.81	8.53	8.07
SM-LDR-005	7.64	6.96	7.31	7.32	7.56	7.60	7.90	8.02	8.12	7.79	7.30	7.02
SM-LDR-006	5.63	5.14	5.56	5.81	6.52	6.77	7.21	7.07	7.08	6.75	6.46	5.46
SM-LDR-007	3.42	2.91	3.35	3.61	4.32	4.55	4.89	4.96	4.94	4.52	4.31	3.32
SM-LDR-008	5.87	5.40	5.81	6.06	6.65	6.95	7.46	7.42	7.47	7.03	6.75	5.74
SM-LDR-009	5.60	5.01	5.54	5.83	6.16	6.61	7.33	7.69	7.43	6.99	6.64	5.61
SM-LDR-010	6.23	5.67	6.16	6.49	6.80	7.19	7.94	8.24	8.18	7.64	7.29	6.33
SM-LDR-011	6.53	5.95	6.46	7.77	7.03	7.48	8.24	8.59	8.41	7.94	7.60	6.63
SM-LDR-012	7.01	6.46	7.02	7.30	7.29	7.41	8.11	8.19	7.99	7.76	7.43	6.54
SM-LDR-013	6.11	5.55	6.11	6.40	6.35	6.46	7.12	7.21	7.04	7.84	6.56	5.66
SM-LDR-014	6.49	5.90	6.52	6.76	8.63	6.89	7.44	7.51	7.37	7.11	6.85	5.96
SM-LDR-015	11.19	11.03	11.57	11.69	12.21	11.53	11.58	11.89	11.98	11.84	11.73	10.76
LDR-016	10.90	10.91	10.89	10.91	10.90	10.91	10.87	10.88	10.89	10.90	10.88	10.88
LDR-017	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
LDR-017A	9.09	8.31	8.98	9.04	8.98	8.84	9.41	9.34	9.39	8.75	9.12	8.67
LDR-018	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
LDR-019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDR-020	10.95	10.96	10.93	10.96	10.91	10.92	10.87	10.89	10.90	10.91	10.93	10.92
LDR-021	11.02	11.03	11.00	11.01	10.99	10.72	10.97	10.98	10.98	11.01	11.02	11.02
LDR-022	10.92	10.88	10.94	10.95	10.92	10.72	10.93	10.85	10.91	10.90	10.95	10.90
LDR-023	11.14	11.14	11.11	11.15	11.09	11.11	11.10	11.09	11.09	11.15	11.08	11.11
LDR-024	10.31	10.00	10.52	10.38	10.42	10.02	9.68	10.35	10.18	10.39	10.10	10.40
LDR-025	11.24	11.25	11.24	11.27	11.23	11.24	11.22	11.21	11.25	11.24	11.22	11.29
SE-LDR-001	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SE-LDR-002	dry	dry	dry	dry	dry	dry	dry	dry	11.21	dry	dry	dry
SE-LDR-003	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SE-LDR-004	9.42	dry	dry	dry	dry	dry	dry	dry	9.94	dry	dry	dry
SE-LDR-005	8.92	8.93	8.91	8.96	dry	dry	dry	8.92	8.93	8.92	8.91	8.92
SE-LDR-006	12.89	12.81	12.98	12.94	12.91	12.94	12.86	12.90	12.96	12.93	12.89	12.84
SB-LDR-001	20.08	20.29	20.14	20.15	20.40	20.31	20.03	20.20	20.09	20.13	20.30	20.31
SB-LDR-002	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
SB-LDR-003	7.80	7.82	7.81	7.90	7.81	7.83	7.83	7.79	7.83	7.85	7.69	7.79
SB-LDR-004	9.26	9.24	9.26	10.91	9.25	9.30	dry	9.26	9.31	9.30	9.26	9.27
RRP-LDR-001	8.50	8.15	8.60	8.51	8.78	8.72	8.94	9.17	9.34	9.08	9.04	8.54
RRP-LDR-002	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
Tank 1 LDR	4.57	4.60	4.76	4.72	4.57	4.52	4.67	4.58	4.48	4.42	4.49	4.55
Tank 2(E) LDR	4.66	4.71	4.61	dry	4.70	4.54	4.36	4.12	4.31	4.69	4.66	4.89
Tank 2(W) LDR	4.57	4.70	4.68	dry	4.55	4.49	4.31	4.03	4.23	4.61	4.68	4.82
Tank 3 LDR	4.74	4.73	4.73	4.75	4.74	4.74	4.44	4.72	4.75	4.73	4.71	4.74

Seneca Meadows Monthly Support

[illegible]

APPENDIX B
LABORATORY REPORTS

APPENDIX C

OU-2 MONITORING DATA SUMMARY (DETECTIONS ONLY)

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																			
Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)		
IN-1D																																			
Baseline Sampling	1/25/2007	1 U	0.5 U	8.3	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.48	35	1573	7.95	-217	12700	2.6	4.5			128	0.01	4 U	3 U	159	1.45	366	2 U	164	18.3	
Injection 1 - 7 Day Performance	6/15/2007	320	2.5 U	13	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.2	5	861	8.64	-337	5170	0.4	0.46 J		0.05 U	30.3	0.01 U	5 U	5 U	124	0.743	127	2 U	135	274	
Injection 1 - 14 Day Performance	6/21/2007	290	2.5 U	23	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.89	10	884	8.65	-332	2830	0.2 U	0.56 J		0.05 U	28.2	0.01 U	5 U	5 U	125	0.664	139	2 U	132	6.58	
Injection 1 - 30 Day Performance	7/6/2007	220	1 U	44	4 U	2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.15	10	916	8.52	-321	2600	0.2 U	1 J		0.05 U	14.1	0.01 U	5 U	5 U	131	0.546	151	2 U	128	208	
Injection 2 - 7 Day Performance	8/29/2007	340	5 U	17	20 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.1	20	892	8.59	-379	4900	0.2 U	0.49 J		0.05 U	30.5	0.01 U	5 U	5 U	123	0.571	115	2 U	130	279	
Injection 2 - 14 Day Performance	9/6/2007	300	5 U	31	20 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.18	5	896	8.77	-361	3690	0.2 U	0.8 J		0.05 U	29.1	0.6	5 U	5 U	135	0.519	136	2 U	124	236	
Injection 2 - 30 Day Performance	9/20/2007	290	1 U	52	4 U	7.5	5 U	5 U	0.44 J	5 U	5 U	5 U	5 U	0.11 J	1.01	5	915	8.86	-240	3130	0.2 U	1 J		501	20.6	0.01 U	5 U	5 U	140	0.435	145	2 U	129	254	
Injection 2 - 30 Day Performance (NYSDEC)	9/20/2007						10 U	10 U	10 U	10 U	10 U	10 U	10 U																						
IN-2D																																			
Baseline Sampling	1/25/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	2.3	1 U	1 U	1 U	1 U	1 U	0.38	35	1538	7.87	-275	16600	3.6	55			517	0.01 U	4 U	3 U	189	0.233	119	2 U	203	7.68	
Injection 1 - 7 Day Performance	6/18/2007	61	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.25	10	703	8.4	-234	4830	0.6	0.37 J		0.074	35.1	0.01 U	5 U	5 U	126	0.596	100	2 U	125	42	
Injection 1 - 14 Day Performance	6/25/2007	50	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.32	10	701	8.7	-294	2690	0.2 U	0.42 J		0.05 U	35.8	0.01 U	5 U	5 U	128	0.679	99.3	2 U	140	41.4	
Injection 1 - 30 Day Performance	7/11/2007	47	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.24	22	699	8.85	-270	2310	0.2 U	0.43 J		0.05 U	35.3	0.01 U	5 U	5 U	104	0.636	96	2 U	117	45.8	
Injection 2 - 7 Day Performance	8/31/2007	77	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.19	10	700	8.51	-292	5010	0.2 U	0.38 J		0.05 U	34.7	0.01 U	5 U	5 U	122	0.59	94.3	2 U	134	56.4	
Injection 2 - 14 Day Performance	9/6/2007	76	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.38	10	700	8.57	-266	2140	0.2 U	0.38 J		0.05 U	34.9	0.01 U	5 U	5 U	96.1	0.594	143	2 U	129	55.2	
Injection 2 - 30 Day Performance	9/24/2007	87	0.5 U	3.3	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.43	5	686	8.72	-323	1680	0.2 U	0.4 J		0.05 U	32.2	0.01 U	5 U	5 U	88.6	0.639	92.7	2 U	127	55.2	
Injection 2 - 30 Day Performance (NYSDEC)	9/24/2007						10 U	10 U	10 U	10 U	10 U	10 U	10 U																						
IN-3D																																			
Baseline Sampling	1/23/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3	1 U	0.54	5	1558	8.49	23	298	0.2 U	4.3			785	0.01 U	4 U	3 U	10 U	0.251	64.9	2 U	49.4	5 U	
Injection 1 - 7 Day Performance	6/12/2007	15	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	4.58	10	715	8.37	367	100 U	0.2 U	0.58 J		0.822	40.4	0.01 U	5 U	5 U	10 U	0.325	99.6	2 U	127	14.8
Injection 1 - 14 Day Performance	6/19/2007	16	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	8.66	10	723	8.39	367	100 U	0.2 U	0.68 J		0.575	50.6	0.01 U	5 U	5 U	10 U	0.332	99.2	2 U	126	25.3
Injection 1 - 30 Day Performance	7/5/2007	17	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	7.81	10	737	8.57	281	100 U	0.2 U	1.1 J		0.557	66.4	0.01 U	5 U	5 U	10 U	0.307	96	2 U	131	18
Injection 2 - 7 Day Performance	8/27/2007	18	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	4.78	15	853	8.52	225	100 U	0.2 U	0.6 J		0.348	115	0.07	5 U	5 U	10 U	0.336	114	2 U	123	20.6
Injection 2 - 14 Day Performance	9/4/2007	10	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	5.77	25	870	8.23	-17	100 U	0.2 U	0.76 J		0.331	121	0.01 U	5 U	5 U	10 U	0.272	116	2 U	129	10
Injection 2 - 30 Day Performance	9/20/2007	61	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2	10	897	7.92	28	100 U	0.2 U	1.2 J		0.34	123	0.01 U	5 U	5 U	10 U	0.184	114	2 U	124	43.9
Injection 2 - 30 Day Performance (NYSDEC)	9/20/2007						10 U	10 U	10 U	10 U	10 U	10 U	10 U																						
IN-3S																																			
Baseline Sampling	1/22/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2	6.9	1 U	0.67	90	1834	7.13	-89	14400	3	670 D			126	0.01 U	4 U	3 U	179	0.566	458	2 U	310	18	
Injection 1 - 7 Day Performance	6/19/2007	54	2.7	3.8	2 U	1.6	5 U	5 U	5 U	5 U	5 U	5 U	1 J	2	1 U	2.49	130	1683	7.06	45	100 U	0.2 U	160 D		0.05 U	120	0.01 U	5 U	5 U	114	0.405	437	2 U	231	65
Injection 1 - 14 Day Performance	6/25/2007	15	1.6	2.4	2 U	1 U	5 U	5 U	5 U	5 U	5 U	1.2 J	2.6	1 U	2.6	110	1626	7.17	38	102	0.2 U	180 D		0.05 U	141	0.01 U	5 U	5 U	110	0.486	428	2 U	246	23.2	
Injection 1 - 30 Day Performance	7/11/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	1.4 J	3.4	1 U	2.41	135	1602	7.04	55	128	0.2 U	220 D		0.05 U	140	0.01 U	5 U	5 U	105	0.422	419	2 U	199	21.3	

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
IN-6D																																		
Baseline Sampling	1/19/2007	1 U	0.5 U	1 U	2 U	1 U	1 U			1 U		14	1 U	1 U	0.48	65	2800	7.08	8	1390	1.2	270 D		630 J	0.01 U		4 U	3 U	1220	5.71	348	2 U	199	10.5
Injection 1 - 7 Day Performance	6/7/2007	3100	10 U	20 U	40 U	20 U	5 U	5 U		6	5 U	3.8 J	0.21 J	1 U	0.42	65	4440	7.41	-158	2610	2.8	56		0.05 U	693	0.05	5 U	5 U	367	1.27	410	2 U	137	2050
Injection 1 - 14 Day Performance	6/14/2007	14	0.5 U	52	2 U	60	5 U	3.3 J		31	0.77 J	5 U	28	2.9	0.46 J	0.4	230	3180	6.94	-123	21400	4.6	210 D	0.05 U	471	0.03	5 U	5 U	3130	3.38	486	2 U	386	209
Injection 1 - 30 Day Performance	6/29/2007	1 U	0.5 U	26	2 U	5.3	5 U	0.99 J		18	5 U	20	2.5	0.49 J	0.49	180	2250	7	-142	8280	3.8	230 D	0.05 U	619	0.14	5 U	5 U	1440	3.6	430	2 U	390	48.5	
Injection 2 - 7 Day Performance	8/21/2007	400	5 U	290	20 U	64	5 U	0.77 J		21	5 U	16	1.3	0.24 J	0.6	145	5120	7.17	-359	949	0.4	110 D	0.05 U	544	1.2	5 U	5 U	588	1.49	639	2 U	222	734	
Injection 2 - 14 Day Performance	8/27/2007	2000	25 U	940	100 U	220	10 U	10 U		10 U	10 U	10 U	0.36 J	0.23 J	1.27	310	4780	6.87	-361	1380	0.4	42	0.0557	294	23	5 U	5 U	377	0.498	1270	2 U	163	2730	
Injection 2 - 30 Day Performance	9/13/2007	8.9	0.5 U	57	2 U	4.9	5 U	0.38 J		8.6	5 U	8.9	1.6	0.21 J	0.82	170	3910	7.03	-351	659	0.2 U	100 D	0.05 U	817	4.5	5 U	5 U	409	1.77	420	2 U	180	115	
Injection 2 - 30 Day Performance (NYSDEC)	9/13/2007						10 U	10 U		7 J	10 U	6 J																						
IN-6S																																		
Baseline Sampling	1/19/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	6.6		51		1 U	29	1 U	1 U	0.56	80	2750	6.89	-6	400	0.6	85		572 J	0.01 U	4 U	3 U	2130	4.77	324	2 U	186	13.6
Injection 1 - 7 Day Performance	6/7/2007	75	0.5 U	8.7	2 U	8.8	5 U	3.1 J		38	1.1 J	5 U	69	3.6	0.69 J	0.41	165	3280	6.65	-38	4120	3	420 D	0.05 U	450	0.01 U	5 U	5 U	4540	1.97	455	2 U	406	92.3
Injection 1 - 14 Day Performance	6/14/2007	15	0.5 U	29	2 U	40	5 U	4.7 J		52	1.2 J	5 U	54	4.6	1	0.44	210	3600	6.77	-88	12600	4	260 D	0.05 U	642	0.01 U	5 U	5 U	4880	3.44	472	2 U	456	148
Injection 1 - 30 Day Performance	6/29/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	8.8		93	1.8 J	0.98 J	110	9.2	1.8	1.04	185	3470	6.78	-62	6040	4.3	410 D	0.05 U	597	0.01 U	5 U	5 U	3880	5.49	395	2 U	490	9.7
Injection 2 - 7 Day Performance	8/21/2007	1 U	0.5 U	56	2 U	62	5 U	4.8 J		66	0.49 J	0.43 J	39	1.6	1 U	3.9	80	1995	7.03	-80	4410	2.4	51	0.05 U	377	0.3	5 U	5 U	1980	1.07	396	2 U	244	172
Injection 2 - 14 Day Performance	8/27/2007	1 U	0.5 U	21	2 U	4.1	10 U	0.84 J		240	4.3 J	0.84 J	150	4.1	1.5	5.49	155	2860	7.07	-81	9210	2.4	97 D	0.0772	426	0.01 U	5 U	5 U	2880	1.94	448	2 U	297	40.6
Injection 2 - 30 Day Performance	9/13/2007	1 U	0.5 U	3.6	2 U	1 U	5 U	5.4		180	1.3 J	0.77 J	120	12	1.9	4.21	185	2780	7.05	-85	6730	2	100 D	0.05 U	518	0.01 U	5 U	5 U	2730	2.35	414	2 U	261	13.8
Injection 2 - 30 Day Performance (NYSDEC)	9/13/2007						10 U	4 J		160	10 U	89																						
Injection Area (4th Qrt 2009)	11/3/2009	3.1	0.5 U	3.5	5.3	9.9	5 U	5 U		7.8	0.45 J	5 U	15	10 U	10 U	0.13	175	2435	6.91	-313	2910	2	6300 D	0.05 U	444	2.25	5 U	5 U	793	5.86	440	2 U	279	83.4
Environmental (4th Qtr. 2011)	11/30/2011						5 U	0.87 J		86	1.2 J	0.43 J	84	50 U	50 U	1.07	100	2420	6.64	-133	4920	3.8	4200	0.05 U	433	1 U	5 U	50 U	1250	4.1	456	2 U	299	14.8
Environmental (1st Qtr. 2012)	2/2/2012						5 U	0.82 J		190	1.8 J	1.2 J	120	50 U	50 U	0.68	65	2670	6.62	-273	5710	1.5	3700	0.05 U	485	1 U	5 U	50 U	1350	3.42	438	2 U	340	16
Environmental (2nd Qtr. 2012)	5/9/2012						5 U	3.5 J		560 D	4 J	3.6 J	200	15	4.6	0.5	100	2640	6.44	-243	6150		3100 D	0.05 U	555	1.5	5 U	50 U	1520	3.2	394	2 U	342	20.9
Environmental (4th Qtr. 2013)	10/28/2013						25 U	8.1 J		52	25 U	13 J	3.1	4.3		1.97	75	1001	6.06	-194	14500	0.6	1200 D		27.9	1.7	5 U	50 U	1200					
Environmental (2nd Qtr. 2014)	5/12/2014						130 U	13 J		75 J	130 U	130 U	20 U	20 U	5.23			2195	5.83	-42	38200	4	9800 D		2.1	1.8	5 U	50 U	1900					
Environmental (4th Qtr. 2014)	10/27/2014						50 U	4.2 J		44 J	50 U	9.1 J	200 U	200 U	1.23			2559	6.16	-87	52600	1.8	15000		2.2	2.3	5 U	50 U	2330					
Environmental (2nd Qtr. 2015)	5/14/2015						50 U	50 U		22 J	50 U	15 J	200 U	200 U	0.74			2039	6.08	-108	21200	1.6	29000 D		10.3	1 U	5 U	50 U	1480					
Environmental (4th Qtr. 2015)	10/16/2015						50 U	50 U		12 J	50 U	23 J	5.9	4.2	0.93			2087	6.25	-73	28500	1.6	32000 D		4.2	1 U	5 U	50 U	1490					
Environmental (2nd Qtr. 2016)	4/28/2016						50 U	50 U		50 U	50 U	50 U	200 U	200 U	0.39			1750	6.35	-77	9700		39000		2 U	1.8	5 U	50 U	976					
Environmental (4th Qtr. 2016)	11/10/2016						50 U	50 U		50 U	50 U	50 U	500 U	500 U	0.79			1899	6.41	-217	1460		34000		2 U	11	5 U	50 U	730					
Environmental (2nd Qtr. 2017)	5/25/2017						50 U	50 U		42 J	50 U	67	250 U	250 U	0.84			1700	6.64	-259	1230 E		21000		7.1	33	5 U	50 U	628					
Environmental (4th Qtr. 2017)	10/26/2017						50 U	50 U		60	50 U	100	250 U	260 U	1.08			1796	6.59	-270	1360	0.4	19000		53.5	47.3	5 U	50 U	776					
Environmental (2nd Qtr. 2018)	4/24/2018						5 U	0.32 J		85	1.6 J	5 U	120	250 U	260 U	1.3		1723	6.77	-253	942	0.2 U	16000		93.6	29.6	5 U	50 U	809					
Environmental (4th Qtr. 2018)	10/30/2018						5 U	5 U		2.2 J	0.48 J	5 U	13	250 U	260 U	1.3	70	1019	6.65	-265	1170	0.2 U	23000		30.6	29.3	5 U	50 U	1010					
Environmental (2nd Qtr. 2019)	5/2/2019						5 U	5 U		13	0.32 J	5 U	16	250 U	260 U	0.53		1324	6.85	-288	1640	0.2 U	14000		79	37.6	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2019)	10/28/2019						5 U	5 U		5.6	0.52 J	5 U	15	15	1.8	1.91		1084	6.84	-257	270		20000 D		133	29.5	5 U	50 U	1010					
Environmental (2nd Qtr. 2020)	4/25/2020						5 U	5 U		53	0.38 J	5 U	79	100 U	100 U	2.28		1337	7.06	-241	1130		7900		209	10.2	5 U	50 U	1150					
Environmental (4th Qtr. 2020)	10/30/2020						5 U	0.46 J		12	0.5 J	5 U	18	100 U	100 U	1.14		1055	6.69	-183	2370	2.5	8200		154	0.05 U	5 U	50 U	1.3					
Environmental (2nd Qtr. 2021)	4/28/2021						5 U	1.8 J		300 D	1.3 J	92	25 U	26 U	1.62			1823	6.8	-174	3290		2000		361	1.75	5 U	50 U	851					
Environmental (4th Qtr. 2021)	10/30/2021						10 U	1.6 J		410 D	1.3 J	0.98 J	300	45	26 U	0.2 U		1475	6.81	-160	30100		3100 D		202		5 U	50 U	1220					
Environmental (2nd Qtr. 2022)	5/4/2022						13 U	13 U		280	13 U	1.4 J	190	50 U	52 U	0.7		1884	6.82	-106	35200 E		3700		300		5 U	50 U	1210 E					
Environmental (4th Qtr. 2022)	10/27/2022						13 U	13 U		20	13 U	13 U	14	120 U	165 U	1.94		2007	6.97	-81	45200		2720		149		5 U	50 U	1150					
Environmental (2nd Qtr. 2023)	5/2/2023						13 U	13 U		39	13 U	13 U	28	4.8	3.3 U	1.7		1858	7.04	-102	70500		7090		83.3	0.98 U	5 U	50 U	1060					
Environmental (4th Qtr. 2023)	10/26/2023						5 U	5 U		49	5 U	5 U	50	50 U	52 U	1.51		1789	7.05	-120	33800	6	9700 D		198	0.4	5 U	50 U	9.7					
Environmental (2nd Qtr. 2024)	4/11/2024						25 U	1.2 J		660	1.8 J	160	50 U	52 U	0.54			1580	6.64	-281	1510	0.7	4300		203	0.4	5 U	50 U	0.8					
IN-7																																		
Baseline Sampling	11/5/2010						5 U	28</																										

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
IN-6D																											
Baseline Sampling	1/19/2007		6.22		8.9	3.33	0.05 U	1 U	1.14		1 U														1 U		1 U
Injection 1 - 7 Day Performance	6/7/2007	5 U	1100		13.7	1.89	0.106	1.01	8.4	3.2 J	5 U	5 U	5 U	5 U	2.3 J	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	1.2 J
Injection 1 - 14 Day Performance	6/14/2007	5 U	61.2		14.8	3.96	61.1	0.126	1 U	8.5	2.6 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	1.5 J	10 U	5 U	5 U	2 J
Injection 1 - 30 Day Performance	6/29/2007	5 U	23.9		14.2	3.74	24.8	0.0571	1 U	2.7	20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	1 J
Injection 2 - 7 Day Performance	8/21/2007	5 U	1160		13.9	2.2	422	0.05 U	7.51	2.7	2.4 J	5 U	5 U	5 U	64	0.29 J	5 U	5 U	5 U	5 U	5 U	10 U	0.32 J	10 U	0.24 JB	5 U	0.39 J
Injection 2 - 14 Day Performance	8/27/2007	8.1	898		15.9	0.918	992	0.05 U	44.7	1.33	5.9 J	10 U	10 U	10 U	280	1.6 JB	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	0.7 JB	10 U	0.68 J
Injection 2 - 30 Day Performance	9/13/2007	5 U	34.7		14.1	2.05	41.1	0.05 U	10.8	0.9	1.3 J	5 U	5 U	5 U	28	0.28 J	5 U	5 U	5 U	5 U	5 U	10 U	0.31 J	10 U	5 U	5 U	0.43 J
Injection 2 - 30 Day Performance (NYSDEC)	9/13/2007										10 U	10 U	10 U	10 U	25		10 U	10 U	10 U		10 U	10 U		10 U	5 U	5 U	10 U
IN-6S																											
Baseline Sampling	1/19/2007		6.56		7.8	4.36	0.05 U	1 U	0.9		1 U														1 U		1 U
Injection 1 - 7 Day Performance	6/7/2007	5 U	35.6		11.3	3.18	32.3	0.0694	1 U	4.5	3.3 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 14 Day Performance	6/14/2007	5 U	36.9		13.8	3.95	36.5	0.156	1 U	3.5	1.9 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 30 Day Performance	6/29/2007	5 U	4.99		12.6	5.2	4.99	0.0789	1 U	0.1 U	20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	1 J	5 U	5 U	5 U
Injection 2 - 7 Day Performance	8/21/2007	86.2	48.9		13.3	1.86	51.7	0.0878	1 U	3.9	4.7 J	5 U	5 U	5 U	4.9 J	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.21 J	10 U	0.25 JB	5 U	5 U
Injection 2 - 14 Day Performance	8/27/2007	5 U	13		16.4	2.52	15.3	0.127	1 U	6.8	13 J	10 U	10 U	10 U	20 U	1.2 JB	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	0.64 JB	10 U	10 U
Injection 2 - 30 Day Performance	9/13/2007	5 U	4.8		15.3	2.78	4.6	0.05 U	1 U	3.1	2.5 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.2 J	10 U	5 U	5 U	0.32 J
Injection 2 - 30 Day Performance (NYSDEC)	9/13/2007										10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		10 U	10 U	5 U	10 U
Injection Area (4th Qrt 2009)	11/3/2009	4.7 U	21.2		12.3	5.99	23.4	0.127	2		1.7 J	5 U	5 U	5 U	1.1 J	0.94 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	11/30/2011	5.1 U			10.6	4.46	5.3			3.5	1.4 J	5 U	5 U	5 U	10 U	0.45 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2012)	2/2/2012	4.8 U			8.5	3.81	5.6			1.5	2.2 J	5 U	5 U	5 U	10 U	0.66 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	5/9/2012	9.3			14.9	3.67	5.8			0.5	2 J	5 U	5 U	5 U	10 U	1 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/28/2013				12.6		140				50 U	25 U	25 U	25 U	50 U	5.1 J	25 U	25 U	2 J	25 U	1 J	10 J	25 U	50 U	25 U	25 U	25 U
Environmental (2nd Qtr. 2014)	5/12/2014				17		620				340	130 U	130 U	130 U	81 J	250 U	20 J	130 U	130 U	130 U	130 U	110	50 U	250 U	130 U	130 U	130 U
Environmental (4th Qtr. 2014)	10/27/2014				12.9		617				190	50 U	50 U	50 U	130	100 U	6.5 J	50 U	50 U	50 U	4.1 J	170	50 U	100 U	50 U	50 U	50 U
Environmental (2nd Qtr. 2015)	5/14/2015				12.8		299				220	50 U	50 U	50 U	63 J	100 U	50 U	50 U	50 U	50 U	50 U	110	50 U	100 U	50 U	50 U	50 U
Environmental (4th Qtr. 2015)	10/16/2015				12.4		265		4.8	92 J	50 U	50 U	50 U	50 U	63 J	100 U	50 U	50 U	50 U	50 U	50 U	100	50 U	100 U	50 U	50 U	50 U
Environmental (2nd Qtr. 2016)	4/28/2016				9.5		59.9		4.7	44 J	50 U	50 U	50 U	50 U	26 J	100 U	3.3 J	50 U	50 U	50 U	50 U	40 J	50 U	100 U	50 U	50 U	50 U
Environmental (4th Qtr. 2016)	11/10/2016				12.7		55.3		9.9	21 J	50 U	50 U	50 U	50 U	9.8 J	100 U	50 U	50 U	50 U	50 U	50 U	23 J	50 U	100 U	50 U	50 U	50 U
Environmental (2nd Qtr. 2017)	5/25/2017				12.6		10.3		2.9	24 BJ	50 U	50 U	50 U	50 U	100 U	22 J	50 U	50 U	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U
Environmental (4th Qtr. 2017)	10/26/2017				11.5		12		2.2	100 U	50 U	50 U	50 U	50 U	100 U	6.2 J	50 U	50 U	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U
Environmental (2nd Qtr. 2018)	4/24/2018				13.6		16.3		3.9	2.8 J	5 U	5 U	5 U	5 U	10 U	22	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/30/2018				11.7		13.6		4	2.6 J	5 U	5 U	5 U	5 U	10 U	21	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	0.22 J	5 U
Environmental (2nd Qtr. 2019)	5/2/2019				12.4		10.7		3.1	10 U	5 U	5 U	5 U	5 U	10 U	5.1 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/28/2019				13.9		7.6		1.7	5.3 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/25/2020				12.3		5.9		5.6	10 U	5 U	5 U	5 U	5 U	10 U	3.5 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/30/2020				10.3		6.1		3.7	10 U	5 U	5 U	5 U	5 U	10 U	1.9 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/28/2021				13.9		3		1.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/30/2021				12.2		8.6		7.9	20 U	10 U	10 U	10 U	10 U	20 U	5.8 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qtr. 2022)	5/4/2022				11.9		5		20.3	25 U	13 U	13 U	13 U	13 U	25 U	13 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	0.62 J
Environmental (4th Qtr. 2022)	10/27/2022				12.3		20.6		45.2	25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	1.7 J	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	1.2 J
Environmental (2nd Qtr. 2023)	5/2/2023				12.6		22.3		60.4	25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	13 U
Environmental (4th Qtr. 2023)	10/26/2023				14.1		13.8		13.4	10 U	5 U	5 U	5 U	5 U	10 U	0.63 J	5 U	1 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.44 J
Environmental (2nd Qtr. 2024)	4/11/2024				13		22.3		4.4	50 U	25 U	25 U	25 U	25 U	50 U	4 J	25 U	7.6 J	25 U	25 U	25 U	25 U	25 U	50 U	25 U	25 U	25 U
IN-7																											
Baseline Sampling	11/5/2010	4.7 U			10.8	2.27	3.8	0.05 U			20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2011)	1/26/2011	4.7 U				1.05	42.3				14 J	5 U	5 U	5 U	6.1 J	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/18/2011	4.7 U			13.7	0.74	46.7		7.3	3.4 J	5 U	5 U	5 U	5 U	3.3 J	0.55 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2011)	7/27/2011	4.7 U			14.8	1.06	19.2		9.7	3.5 J	5 U	5 U	5 U	5 U	2.2 J	0.32 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/24/2011	4.7 U			12.1	1.29	6.7		4	2.8 J	5 U	5 U	5 U	5 U	1.9 J	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2012)	2/2/2012	4.7 U			9.3	0.94	6.4		3.4	1.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	5/9/2012	4.8 U			13.8	1.88	4.6		0.5	10 U	5 U	5 U	5 U	5 U	10 U	0.59 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/29/2013				11.3		555			6.2 J	5 U	5 U	5 U	5 U	160	4.4 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2014)	1/31/2014				7.7		266		493	43	0.31 J	5 U	5 U	5 U	230 D	6.5 J	5 U	5 U	5 U	5 U	0.65 J	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/28/2014				11.4		52			29	1.2 J	5 U	5 U	5 U	65	1.5 J	5 U	5 U	5 U	5 U	5 U	5.6 J	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2014)	7/22/2014				14.3		39.3			30	0.41 J	5 U	5 U	5													

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMN (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
Well	Date																																	
Office Well																																		
Baseline Sampling	2/26/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	120	77	1.8	1 U	5.7	1 U	1 U	0.88	30	3540	6.99	90	2900	0.2 U	15		480	0.01 U	4 U	3 U	987	0.85	283	2 U	918	15.9	
Injection 1 - 60 Day Performance	8/16/2007	1 U	0.5 U	26	2 U	2.3	5 U	6.5	950 D	13	2.4 J	72	7.1	0.56 J	0.28	215	2750	7	-179	15000	3.5	76	0.0654	33.5	0.55	5 U	5 U	2950	0.364	658	2 U	1020	53.9	
Injection 1 - 90 Day Performance	9/19/2007	10 U	5 U	320	20 U	440	5 U	3.4 J	570 D	6.9	1.6 J	240 D	100 D	1.6	1.27	250	4500	7.21	-175	23600	3.4	75	0.05 U	19.5	0.55	5 U	5 U	2050	0.567	1020	2 U	740	1040	
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/18/2007	1 U	0.5 U	170	2 U	170	5 U	5 U	82	4.5 J	5 U	130	410 D	1 U	0.94	165	4090	6.98	-124	16000	3.4	110 D	0.05 U	3.58	0.75	5 U	5 U	1210	0.317	844	2 U	696	464	
Injection 2 - 90 Day Performance	11/16/2007	1400 D	0.69	94	2 U	30	5 U	2.6 J	89	2.7 J	0.32 J	60	350 D	1 U	0.64	225	4910	6.35	-94	24300	2.2	92 D	0.05 U	63.1	3.3	5 U	5 U	4140	0.644	672	2 U	564	1970	
Injection 2 - 120 Day Performance	12/17/2007	1 U	0.5 U	3.1	2 U	1 U	5 U	15	60	0.6 J	5 U	4.6 J	5.2	1 U	1	50	2320	7.02	-40	4440	0.4	7.7	1.91	230	0.05	5 U	5 U	5540	0.0533	424	2 U	769	19.7	
Injection 3 - 60 Day Performance	1/22/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	7	120	1 J	0.77 J	15	5.9	1 U	0.49	100	4530	7.12	-127	4850	3.2	32	0.05 U	358	0.01 U	5 U	5 U	6820	0.256	369	2 U	977	22.5	
Injection 3 - 90 Day Performance	2/20/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	24	380 D	3.2 J	2.1 J	29	2.5	1 U	0.45	90	5500	4.64	-34	4240	3.3	35	0.147	517	0.01 U	5 U	5 U	4910	0.323	348	2 U	1200	5 U	
Injection 3 - 120 Day Performance	3/20/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	27	190	2.4 J	1 J	12	1.1	1 U	0.83	60	5535	7.07	24	1270	0.6	21	1.64	413	0.01 U	5 U	5 U	2240	0.234	322	2 U	1370	22	
Injection Area (4th Qrt 2009)	11/5/2009	1 U	0.5 U	1 U	2 U	1 U	25 U	7.4 J	1200 D	24 J	4.6 J	220	110 D	55	0.53	175	3944	6.63	-112	12400	4.2	7100 D	0.05 U	274	0.65	5 U	5 U	5490	1.94	500	2 U	772	29.1	
Environmental (4th Qtr. 2011)	11/30/2011						50 U	4 J	1200	8.4 J	4.2 J	230	100 U	100 U	1.15	120	3740	6.83	-129	16100	4.8	8900	0.565	355	1 U	5 U	50 U	5100	1.2	498	2 U	657	44.8	
Environmental (1st Qtr. 2012)	2/2/2012						25 U	25 U	580	4.6 J	1.9 J	210	100 U	100 U	1.01	75	4040	6.71	-138	12700	4	5100	0.198	384	1 U	5 U	50 U	5150	1.55	398	2 U	850	13	
Environmental (2nd Qtr. 2012)	5/9/2012						5 U	6.5	160	1.2 J	0.75 J	16	1.8	1 U	5.21	40	2040	6.85	-55	1420		150 D	2.97	346	1.1 U	5 U	50 U	825	0.464	265	2 U	305	11.9	
Environmental (4th Qtr. 2013)	10/24/2013						5 U	18	17	0.41 J	5 U	3 J	1 U	1 U	1.03	65	2089	6.97	-19	6620	1.4	1.8		660	0.99 U	5 U	50 U	1180						
Environmental (2nd Qtr. 2014)	5/13/2014						5 U	4.7 J	15	0.49 J	5 U	4.7 J	1 U	1 U	1.62	20	2930	6.89	-67	6530	3.8	4.4		436	1 U	5 U	50 U	2700						
Environmental (4th Qtr. 2014)	10/25/2014						5 U	19	21	5 U	5 U	2.6 J	1 U	1 U	0.36	65	2109	6.76	26	1410	0.2	2		653	1 U	5 U	50 U	564						
Environmental (2nd Qtr. 2015)	5/14/2015						5 U	3.2 J	3.8 J	5 U	5 U	0.59 J	1 U	1 U	0.4	55	1970	7.21	-47	1420	0.2 U	3.2		502	0.97 U	5 U	50 U	925						
Environmental (4th Qtr. 2015)	10/16/2015						5 U	1.2 J	3.8 J	5 U	5 U	0.94 J	1 U	1 U	0.39	60	1284	7.22	-19	2240	0.2 U	2.4		475	1 U	5 U	50 U	773						
Environmental (2nd Qtr. 2016)	4/28/2016						5 U	4 J	16	0.49 J	5 U	1.6 J	1 U	1 U	0.36	40	2756	7.07	-68	2500	0.8	5.1		456	1 U	5 U	50 U	884						
Environmental (4th Qtr. 2016)	11/10/2016						5 U	0.84 J	4 J	5 U	5 U	0.46 J	1 U	1 U	1.8	40	1495	7.19	-12	1500	0.6	19		552	1 U	5 U	50 U	1460						
Environmental (2nd Qtr. 2017)	5/25/2017						5 U	2.6 J	5 U	5 U	5 U	5 U	1 U	1 U	0.86	45	3003	7.03	10	1090 E	0.2 U	4.5		459	0.98 U	5 U	50 U	1660						
Environmental (4th Qtr. 2017)	11/1/2017						5 U	1 J	3.7 J	5 U	5 U	5 U		1 U	0.83	40	1580	6.98	-16	1710	0.5	100		446	0.98 U	5 U	50 U	2210						
Environmental (2nd Qtr. 2018)	4/26/2018						5 U	1.4 J	5 U	5 U	5 U	5 U	1 U	1 U	3.88	30	2126	7.33	43	831	0.2 U	3.3		336	0.98 U	5 U	50 U	692						
Environmental (4th Qtr. 2018)	10/30/2018						5 U	0.87 J	31	0.62 J	5 U	8	1 U	1 U	1.47	65	1483	7	-89	3450	0.2	68		238	0.99 U	5 U	50 U	3460						
Environmental (2nd Qtr. 2019)	5/3/2019						5 U	1.4 J	30	0.6 J	5 U	5	1 U	1 U	0.2 U	20	2078	7.06	17	2220	0.2 U	44		286	0.97 U	5 U	50 U	2.7						
Environmental (4th Qtr. 2019)	10/30/2019						5 U	0.3 J	43	0.7 J	5 U	11	1 U	1 U	0.33	35	1722	6.97	-39	3260	0.2 U	9.9		230	0.01 U	5 U	50 U	3.9						
Environmental (2nd Qtr. 2020)	4/28/2020						5 U	1 J	27	0.6 J	5 U	4.2 J	1 U	1 U	0.27		2254	6.95	-37	39800		7.5		399	0.97 U	5 U	50 U	4210						
Environmental (4th Qtr. 2020)	10/30/2020						5 U	0.33 J	8	0.29 J	5 U	2.2 J	2 U	1 U	0.36		1700	6.8	-84	6060		17		434	0.96 U	5 U	50 U	1940						
Environmental (2nd Qtr. 2021)	4/29/2021						5 U	0.58 J	11	0.34 J	5 U	2.4 J	3 U	1 U	0.52	60	4600	6.98	-54	3610	2	6.4		553	0.05 U	5 U	50 U	1.8						
Environmental (4th Qtr. 2021)	10/30/2021						5 U	0.89 J	0.89 J	5 U	5 U	5 U	1 U	1 U	8.8	30	1050	7.76	153	1260	0.2 U	18		209	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2022)	4/29/2022						5 U	7.2	28	0.53 J	5 U	0.31 J	5.3	1 U	1 U	0.44	60	2896	6.63	16	2330	0.2 U	5.8		449	0.05 U	5 U	50 U	1730					
Environmental (4th Qtr. 2022)	10/27/2022						5 U	0.56 J	21	1.6 J	5 U	21	24 U	33 U	0.27	50	2169	6.84	-147	2380	50	386		330	0.05 U	5 U	50 U	2						
Environmental (2nd Qtr. 2023)	5/2/2023						5 U	0.96 J	51	2.2 J	5 U	27	2.4 U	3.3 U	1.36	50	2346	7.06	-128	2620	2	176		320	0.05 U	5 U	50 U	0.4						
Environmental (4th Qtr. 2023)	10/25/2023						5 U	0.37 J	2.5 J	5 U	5 U	0.52 J	5 U	5.2 U		35	1773	6.94	-75	1370	0.6	38		441	0.05 U	5 U	50 U	2.3						
Environmental (2nd Qtr. 2024)	4/10/2024						5 U	5 U	1.5 J	5 U	5 U	0.21 J	5 U	5.2 U		25	2049	7.21	-115	990	0.7	5.8		268	0.05 U	5 U	50 U	1.1						
SE-100DB																																		
Baseline Sampling	2/12/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	24	210 D	2.6	3.5	62	15	1 U	0.24	80	1415	7	-59	2380	2.7	340 D		238	0.01 U	4 U	3 U	155	0.606	508	2 U	154	19.2	
Injection 1 - 60 Day Performance	8/14/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	24	220 D	2.8 J	3.3 J	60	13	1 U	0.26	150	1585	6.93	-79	2130	1.8	360 D	0.05 U	208	0.01 U	5 U	5 U	156	0.708	472	2 U	157	16.4	
SE-100DBR																																		
Injection 1 - 60 Day Performance	8/22/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	3.1 J	68	0.83 J	0.68 J	15	3.5	1 U	2.8	60	1152	7.28	-33	876	0.8	180 D	0.05 U	160	0.01 U	5 U	5 U	51.6	0.205	441	2 U	126	7.97	
Injection 1 - 90 Day Performance	9/18/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	3.6 J	69	0.47 J	0.83 J	20	4.4	2.5 U	3.01	110	1212	7.43	-21	873	0.8	190	0.05 U	151	0.01 U	5 U	5 U	51.5	0.213	444	2 U	124	7.97	
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/19/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	2.5 J	55	0.37 J	0.75 J	13	4.6	1 U	4.1	70	1262	7.14	-11	1220	0.8	200 D	0.05 U	162	0.01 U	5 U	5 U	47.6	0.225	439	2 U	119	7.97	
Injection 2 - 90 Day Performance	11/15/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	3.2 J	68	0.44 J	0.92 J	20	2.8	1 U	4.31	65	1194	7.2	78	1030	0.4	130 D	0.05 U	129	0.01 U	5 U	5 U	46.8	0.249	428	2 U	103	10.4	
Injection 2 - 120 Day Performance	12/18/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	3.2 J	51	0.38 J	0.79 J	15	4.2	2.5 U	1.08	45	1216	7.13	-5	1510	0.6	220	0.0505	141	0.01 U	5 U	5 U	55.4						

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)	
Office Well																												
Baseline Sampling	2/26/2007		4.52	7.8		3.19	0.05 U	1 U	30		1 U														1 U		1 U	
Injection 1 - 60 Day Performance	8/16/2007	5 U	15.3	16.2	1.34	14.6	0.102	1 U	7.9	2.4 J	5 U	5 U	5 U	5 U	10 U	0.63 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 1 - 90 Day Performance	9/19/2007	5 U	300	14.8	1.1	286	0.0723	1 U	3.8	2.5 J	5 U	5 U	5 U	5 U	68	0.35 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/18/2007	5 U	154	15.9	0.759	164	0.1 U	1.37	2.9	20 U	5 U	5 U	5 U	5 U	45	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 2 - 90 Day Performance	11/16/2007	26.3	698	10.5	1.55	706	4.73	1.8	19	3.4 J	5 U	5 U	5 U	5 U	13	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 2 - 120 Day Performance	12/17/2007	5 U	1 U	8.6	0.634	6.28	0.0914	1 U	10.6	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 3 - 60 Day Performance	1/22/2008	5 U	4.24	9.2	0.473	4.33	0.0755	1 U	8.1	1.1	5 U	5 U	5 U	5 U	10 U	0.46 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 3 - 90 Day Performance	2/20/2008	5 U	3.9	9.7	0.564	3.11	0.0503	1 U	3.1	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 3 - 120 Day Performance	3/20/2008	5 U	3.76	9.1	0.658	3.22	0.05 U	1 U	6.5	0.76 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection Area (4th Qrt 2009)	11/5/2009	4.7 U	6.1	12.1	2.68	6.3	0.09	1 U		100 U	25 U	25 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	
Environmental (4th Qtr. 2011)	11/30/2011	4.8 U		11.7	2.14	6.9			10	100 U	50 U	50 U	50 U	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	
Environmental (1st Qtr. 2012)	2/2/2012	4.7 U		8.5	2.22	5.2			20.5	50 U	25 U	25 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	
Environmental (2nd Qtr. 2012)	5/9/2012	4.8 U		16.1	0.83	4			15.3	10 U	5 U	5 U	5 U	5 U	10 U	0.29 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2013)	10/24/2013			10.2		4.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2014)	5/13/2014			14.4		3.6				1.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	0.79 J	5 U	5 U	
Environmental (4th Qtr. 2014)	10/25/2014			14.7		3.8				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2015)	5/14/2015			13.2		3.4				1.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	1.3 J	5 U	5 U	
Environmental (4th Qtr. 2015)	10/16/2015			16.4		2.3			15.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2016)	4/28/2016			11.1		4.8			6.7	1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2016)	11/10/2016			11.8		5.5			7.6	1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2017)	5/25/2017			12.8		8.4			7.3	10 U	5 U	5 U	5 U	0.53 J	10 U	0.74 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2017)	11/1/2017			13.2		4.6			8.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2018)	4/26/2018			11.4		5			6.8	3.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2018)	10/30/2018			12.6		3.5			6.1	3.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2019)	5/3/2019			12.1		2.5			25.3	10 U	5 U	5 U	5 U	5 U	10 U	0.53 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2019)	10/30/2019			13.6		1.9			12.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2020)	4/28/2020			8.9		3.7			19.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2020)	10/30/2020			12.1		4.4			14.4	10 U	5 U	5 U	5 U	0.77 J	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2021)	4/29/2021			12.2		2.7			2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2021)	10/30/2021			14.1		2.1			7.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2022)	4/29/2022			12.2		2.2			18.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2022)	10/27/2022			12.4		12			0.5	10 U	5 U	5 U	5 U	5 U	10 U	1.3 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2023)	5/2/2023			12.1		3.3			5.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2023)	10/25/2023			14.3		3.7			2.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	0.29 J	5 U	5 U	
Environmental (2nd Qtr. 2024)	4/10/2024			13		2			14.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
SE-100DB																												
Baseline Sampling	2/12/2007		6.84	10.5		4.48	0.05 U	1 U	2.6		1 U														1 U		1 U	
Injection 1 - 60 Day Performance	8/14/2007	5 U	4.01	13.2		0.903	3.55	0.05 U	1 U	3.2	20 U	5 U	5 U	5 U	10 U	0.87 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	
SE-100DBR																												
Injection 1 - 60 Day Performance	8/22/2007	5 U	2.34	14.1	0.342	2.19	0.05 U	1 U	7.7	1 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	0.42 J	
Injection 1 - 90 Day Performance	9/18/2007	5 U		14.2	0.487	2.14	0.05 U	1 U	5.8	0.91 J	0.43 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	0.41 J	10 U	5 U	5 U	1.1 J
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/19/2007	5 U	3.77	14.5	0.526	2.96	0.2 U	1 U	23.2	20 U	0.37 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	1.2 J	
Injection 2 - 90 Day Performance	11/15/2007	5 U	3.51	11.3	0.467	2.89	0.05 U	1 U	6	20 U	0.2 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	0.27 J	10 U	5 U	0.67 J	
Injection 2 - 120 Day Performance	12/18/2007	5 U	3.85	9.6	0.4	2.57	0.05 U	1 U	20.9	20 U	5 U	5 U	5 U	5 U	10 U	1.5 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 3 - 60 Day Performance	1/22/2008	5 U	3.01	8.6	0.318	2.52	0.05 U	1 U	6.7	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 3 - 90 Day Performance	2/15/2008	5 U	3.58	8.7	0.325	2.41	0.05 U	1 U	3.2	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Injection 3 - 120 Day Performance	3/20/2008	5 U	3.17	8.7	0.388	2.39	0.05 U	1 U	2.2	0.71 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008		3.8			2.97																						
Injection Area (4th Qrt 2009)	11/4/2009	4.7 U		12.1	0.47	3.7	0.072	0.97 U		1.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	10 U	5 U	5 U	
Landfill Monitoring - 3rd Qrt 2010 (Select Parameters)	7/20/2010																											
Environmental (4th Qtr. 2011)	12/1/2011	4.8 U		11.9	0.38	2.4			30.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (1st Qtr. 2012)	1/31/2012	4.8 U		11.6	0.33	2.2			51.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2012)	5/7/2012	4.8 U		14.1	0.38	2.2			1.9	10 U	5 U	5 U	5 U	0.33 B J	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Landfill Expansion Monitoring - 3rd Qrt 2012	7/17/2012					2.2																						
Landfill Expansion Monitoring - 4th Qrt 2012	10/11/2012					2.5																						
Landfill Expansion Monitoring - 1st Qrt 2013	1/17/2013					2.2																						
Landfill Expansion Monitoring - 2nd Qrt 2013	4/16/2013					2.2																						
Landfill Expansion Monitoring - 3rd Qrt 2013	7/26/2013					2.2																						
Environmental (4th Qtr. 2013)	10/25/2013			11.8		1.9				10 U	5 U	5 U	5 U	5 U	10 U													

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
SE-100SB																																		
Baseline Sampling	2/12/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	89	600 D	5.1	9	170	13	1 U	6.4	45	1332	7.28	6	762	0.7	220 D		216	0.01 U	4 U	3 U	248	0.819	443	2 U	158	20.3	
Injection 1 - 60 Day Performance	8/15/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	110	800 D	7.1	13	240 D	18	0.73 J	0.89	135	1625	7.1	-68	789	0.8	330 D	0.05 U	198	0.01 U	5 U	5 U	259	0.913	488	2 U	169	21.3	
SE-100SBR																																		
Injection 1 - 60 Day Performance	8/22/2007	1 U	0.5 U	1 U	2 U	30	5 U	5 U	42	0.46 J	0.58 J	18	1.2	0.14 J	0.8	65	1000	7.21	-7	187	0.2 U	5.2	0.05 U	73.2	0.01 U	5 U	5 U	33.3	0.238	402	2 U	77.9	6.22	
Injection 1 - 90 Day Performance	9/14/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	0.24 J	1.9 J	5 U	5 U	0.27 J	0.2 J	1 U	1.71	85	931	7.2	35	122	0.2 U	0.88 J	0.05 U	55.3	0.01 U	5 U	5 U	12.1	0.218	375	2 U	43.2	9.36	
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/19/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	33	5 U	5 U	4.4 J	1 U	1 U	2.44	70	890	7.25	50	191	0.2 U	3.4	0.05 U	72.1	0.01 U	5 U	5 U	10 U	0.104	379	2 U	61.2	23.5	
Injection 2 - 90 Day Performance	11/15/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	27	0.25 J	0.36 J	6.4	1 U	1 U	3.07	50	1037	7.14	149	100 U	0.2 U	0.83 J	0.05 U	70.1	0.01 U	5 U	5 U	10 U	0.183	390	2 U	64.5	10	
Injection 2 - 120 Day Performance	12/18/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	24	5 U	5 U	4.8 J	1 U	1 U	2.6	45	1114	7.18	67	956	0.2 U	3.3	0.0579	76.8	0.01 U	5 U	5 U	31	0.142	398	2 U	77.4	5.52	
Injection 3 - 60 Day Performance	1/22/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	23	5 U	5 U	3.8 J	1 U	1 U	2	70	1114	7.24	39	233	0.4	0.89 J	0.117	60.1	0.01 U	5 U	5 U	13	0.05 U	390	2 U	59.9	5 U	
Injection 3 - 90 Day Performance	2/20/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	31	5 U	5 U	7	0.42 J	1 U	2.9	50	1077	7.31	75	427	0.2 U	2.7	0.166	65.7	0.01 U	5 U	5 U	22.4	0.05 U	409	2 U	70.7	5 U	
Injection 3 - 120 Day Performance	3/20/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	0.22 J	40	0.35 J	0.49 J	12	1 U	1 U	3.27	60	1072	7.33	101	105	0.2 U	1 J	0.157	79.8	0.01 U	5 U	5 U	13.5	0.05 U	410	2 U	86.4	13.3	
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008						5 U	0.47 J	150	0.97 J	1.2 J	57					1833	7.15	53														211	11
Injection Area (4th Qrt 2009)	11/5/2009	1 U	0.5 U	1 U	2 U	1 U	10 U	10 U	220	2.1 J	2.1 J	64	2.2	1 U		75	1513	7.18	-1	560	0.2 U	28	0.05 U	150	0.01 U	5 U	5 U	162	0.372	438	2 U	170	24.5	
Landfill Monitoring - 3rd Qrt 2010 (Select Parameters)	7/13/2010							1.4 J	350	2.9 J	4.1 J	170																						
Environmental (4th Qtr. 2011)	11/30/2011						10 U	1 J	210	1.8 J	2.3 J	63	2.3	1 U		60	1650	6.98	162	166	0.2 U	48	0.05 U	165	1 U	5 U	50 U	192	0.342	442	2 U	223	36.9	
Environmental (1st Qtr. 2012)	1/31/2012						5 U	0.79 J	160	1.2 J	1.6 J	36	1.2	1 U		35	1443	6.94	27	100 U	0.2 U	28	0.08	137	1 U	5 U	50 U	53	0.258	418	2 U	188	8.8	
Environmental (2nd Qtr. 2012)	5/3/2012						5 U	1 J	190	1.4 J	2.4 J	50	1.4	1 U		40	1661	7.03	148	388		24	0.058	157	1 U	5 U	50 U	110	0.367	420	2 U	211	9.2	
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/12/2012						5 U	1.1 J	190	2.3 J	2.8 J	64																						
Environmental (4th Qtr. 2013)	10/25/2013						5 U	0.82 J	85	1.2 J	1.3 J	15	1 U	1 U		45	1382	6.91	56	646	0.2 U	7.7		99.2	0.99 U	5 U	50 U	41.5						
Environmental (2nd Qtr. 2014)	5/12/2014						5 U	0.51 J	69	0.95 J	0.91 J	13	1 U	1 U		50	1147	7.02	85	198	0.2 U	21		82.3	0.97 U	5 U	50 U	30.4						
Environmental (4th Qtr. 2014)	10/24/2014						5 U	0.57 J	75	0.87 J	1.1 J	13	1 U	1 U		50	1279	7.35	23	186	0.2 U	7.8		98	1 U	5 U	50 U	25.7						
Environmental (2nd Qtr. 2015)	5/14/2015						5 U	0.54 J	57	0.7 J	0.59 J	3 J	1 U	1 U	0.55	45	1268	7.01	-48	121	0.3	6.7		83.3	0.97 U	5 U	50 U	10.2						
Environmental (4th Qtr. 2015)	10/20/2015						5 U	0.98 J	99	0.95 J	1.4 J	28	1.8	1 U		50	1870	7.47	126	348	0.2 U	150 D		209	0.98 U	5 U	50 U	182						
Environmental (2nd Qtr. 2016)	4/26/2016						5 U	0.55 J	53	0.8 J	0.59 J	6.4	1 U	1 U		45	1309	6.99	87	100 U	0.2 U	27		109	1 U	5 U	50 U	18.5						
Environmental (4th Qtr. 2016)	11/15/2016						5 U	0.67 J	68	0.72 J	0.96 J	18	1 U	1 U		50	1666	7.6	87	203	0.2 U	75		160	1 U	5 U	50 U	97.7						
Environmental (2nd Qtr. 2017)	5/23/2017						5 U	0.51 J	48	0.49 J	0.58 J	6.2	1 U	1 U		35	1125	7.14	149	252	0.2 U	25		89.7	1 U	5 U	50 U	31.4						
Environmental (4th Qtr. 2017)	10/27/2017						5 U	0.64 J	55	0.7 J	0.76 J	6.8	1 U	1 U		50	1484	7.09	68	150	0.2 U	7.7		129	0.99 U	5 U	50 U	19.7						
Environmental (2nd Qtr. 2018)	4/20/2018						5 U	0.48 J	49	0.44 J	0.68 J	7.5	1 U	1 U		60	1353	7.2	157	100 U	0.2 U	8.3		116	1 U	5 U	50 U	15.2						
Environmental (4th Qtr. 2018)	10/26/2018						5 U	0.66 J	44	0.45 J	0.6 J	5.2	1 U	1 U		60	1427	7.21	164	142	0.2 U	14		127	1 U	5 U	50 U	21.1						
Environmental (2nd Qtr. 2019)	4/30/2019						5 U	0.5 J	42	0.47 J	0.47 J	2.7 J	1 U	1 U	0.2 U	45	1328	7.38	120	100 U	0.2 U	2.2		116	0.96 U	5 U	50 U	0.2						
Environmental (4th Qtr. 2019)	10/29/2019						5 U	0.62 J	54	0.65 J	0.66 J	7.5	1 U	1 U		50	1521	6.97	122	245	0.2 U	19		150	0.01 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2020)	4/24/2020						5 U	0.53 J	44	0.59 J	0.53 J	6.5	1 U	1 U		35	1050	7.2	170	194	0.2 U	22		76.6	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2020)	10/22/2020						5 U	0.52 J	48	0.41 J	0.7 J	6.8	1 U	1 U		55	1504	7.15	120	205	0.2 U	14		140	0.05 U	5 U	50 U	0.6						
Environmental (2nd Qtr. 2021)	4/27/2021						5 U	0.42 J	36	0.42 J	0.48 J	3.3 J	1 U	1 U		75	1197	7.07	33	128	0.2 U	7.4		97.1	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2021)	10/27/2021						5 U	0.45 J	36	0.41 J	0.43 J	4 J	1 U	1 U	3.67	60	1135	7.35	29	212	0.2 U	17		84.7	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2022)	4/21/2022						5 U	0.41 J	29	0.45 J	0.37 J	6.3		1 U		70	1023	6.95	158	1260	0.2 U	120 D		55.6	1.2	5 U	50 U	0.3						
Environmental (4th Qtr. 2022)	10/26/2022						5 U	0.3 J	21	0.36 J	0.21 J	4.7 J	4.8 U	6.6 U		50	1173	7.07	-76	5270		1	37.5	86.5	0.05 U	5 U	50 U	0.3						
Environmental (2nd Qtr. 2023)	4/25/2023						5 U	0.34 J	19	0.3 J	0.22 J	4.4 J	2.4 U	3.3 U		40	1038	7.27	-33	2290	0.2 U	15.5		75.6	0.05 U	5 U	50 U	0.6						
Environmental (4th Qtr. 2023)	10/24/2023						5 U	0.4 J	28	0.4 J	0.42 J	7.4	5 U	5.2 U		50	1381	7.13	32	1420	0.8	11		130	0.05 U	5 U	50 U	0.2						
Environmental (2nd Qtr. 2024)	4/11/2024						50 U	50 U	9.3 J	50 U	50 U	50 U	5 U	5.2 U			3815	5.56	-111	19400		350		4.3		50 U	500 U	370						
T-21DB																																		
Baseline Sampling	2/1/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U	5.89	25	879	7.33	-55	842	0.6	3.3		128	0.02	4 U	3 U	19.4	0.05 U	324	2 U	47.4	5 U	
Injection 1 - 90 Day Performance	9/25/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	0.29 J	1.4 J	5 U	5 U	5 U	1 U	1 U	0.94	50	864	7.3	-178	349	0.4	5.7		0.05 U	121	0.09	5 U	5 U	17.3	0.0793	326	2 U	39.7	5 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/22/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	4.1	50	900	7.45	52	823	0.8	3.9	0.0556	123	0.01 U	5 U	5 U	20.2	0.0601	333	2 U	33.3	5 U	
Injection 2 - 90 Day Performance	11/15/2007	1 U	0.5 U	1.2	2 U	1 U	5 U	0.24 J	1.2 J	5 U	5 U	5 U	1 U	1 U	2.76	40	937	7.34	-22	1060	0.8	3.8	0.05											

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
SE-100SB																											
Baseline Sampling	2/12/2007		8.32	7.7		5.74	0.05 U	1 U	18.4		1 U														1 U		1 U
Injection 1 - 60 Day Performance	8/15/2007	5 U	4.73	15.5	1.18	4.32	0.05 U	1 U	2.7	1.1 J	1.2 J	5 U	5 U	5 U	10 U	10 U	5 U	0.39 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.43 J
SE-100SBR																											
Injection 1 - 60 Day Performance	8/22/2007	5 U	3.57	15.3	0.508	2.43	0.104	1 U	8.8	1.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/14/2007	5 U	1.96	16.6	0.546	1.78	0.05 U	1 U	6.6	1.1 J	5 U	5 U	5 U	5 U	10 U	0.22 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/19/2007	5 U	5.81	15.4	0.453	6.44	0.15	1 U	7.6	2.7 J	1.5 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 90 Day Performance	11/15/2007	5 U	2.25	11.1	0.386	2.35	0.0601	1 U	3.8	0.51 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 120 Day Performance	12/18/2007	5 U	2.81	8.2	0.384	2.06	0.1 U	1 U	13.8	20 U	5 U	5 U	5 U	5 U	10 U	1.6 JB	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 60 Day Performance	1/22/2008	5.05 U	6.2	7.7	0.2 U	2.02	0.05 U	1 U	4	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/20/2008	5 U	2.52	6.2	0.2 U	2.3	0.05 U	1 U	5.2	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 120 Day Performance	3/20/2008	5 U	4.12	8.9	0.322	2.51	0.05 U	1 U	1.8	0.66 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008		7.9			5.27											5 U										
Injection Area (4th Qrt 2009)	11/5/2009	4.6 U		10.2	0.73	7.6	0.05 U	1 U		4.8 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U
Landfill Monitoring - 3rd Qrt 2010 (Select Parameters)	7/13/2010																										
Environmental (4th Qtr. 2011)	11/30/2011	4.7 U		11.5	0.66	3.6			5.5	2.6 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (1st Qtr. 2012)	1/31/2012	4.7 U		8.1	0.2 U	2.5			3.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	5/3/2012	4.8 U		14	0.58	3			10.9	10 U	5 U	5 U	5 U	0.31 BJ	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/12/2012																5 U										
Environmental (4th Qtr. 2013)	10/25/2013			12.1		2.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/12/2014			15		2.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/24/2014			13.7		2.8				10 U	5 U	5 U	5 U	5 U	10 U	0.41 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/14/2015			13.4		1.9				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/20/2015			14.3		2.9			23.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/26/2016			11.1		6.6			4.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/15/2016			11.8		9.5			5.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.25 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/23/2017			14.1		2.6			4.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/27/2017			14.8		2.2			7.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/20/2018			11.7		7.3			5.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/26/2018			13.1		2.7			2.3	6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	0.35 J	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/30/2019			13.9		2.3			4.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/29/2019			15.2		8.4			6.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/24/2020			14.1		2.8			4.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/22/2020			14.6		2.8			2.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.38 BJ	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/27/2021			14.5		1.9			3.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/27/2021			13.6		2.1			7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/21/2022			13.7		8.2			4	10 U	3 J	5 U	5 U	5 U	10 U	2.5 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/26/2022			15.1		4			13.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.39 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/25/2023			13.9		2.6			13.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/24/2023			15.6		2.1			8.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/11/2024			15.2		41300				180	50 U	50 U	50 U	50 U	250	100 U	50 U	50 U	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	2.3 J
T-210B																											
Baseline Sampling	2/1/2007		3.83	7.2		1.24	0.05 U	1 U	2.8		1 U														1 U		1 U
Injection 1 - 90 Day Performance	9/25/2007	5 U	1.06	14.3	0.254	1 U	0.05 U	1 U	3.6	0.94 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/22/2007	5 U	1.86	13.2	0.2 U	1.47	0.0544	1 U	2.9	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.71 J	10 U	5 U	5 U	0.95 J
Injection 2 - 90 Day Performance	11/15/2007	5.17	1.99	10.4	0.275	1.74	0.0603	1 U	5.5	1.1 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.42 J	10 U	5 U	5 U	0.41 J
Injection 2 - 120 Day Performance	12/14/2007	5 U	2.71	8.8	0.205	1.4	0.0572	1 U	1.7	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.3 J	10 U	5 U	5 U	5 U
Injection 3 - 60 Day Performance	1/18/2008	5 U	3.27	8	0.2 U	1.37	0.05 U	1 U	1	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/19/2008	6.05 U	5.77	6.6	0.2 U	1.16	0.05 U	1 U	0.7	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 120 Day Performance	3/19/2008	5.15 U	1.92	8.9	0.2 U	1.6	0.05 U	1 U	0.9	0.8 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-215B																											
Baseline Sampling	2/8/2007		2.56	3.6		1.14	0.05 U	1 U	9.9		1 U														1 U		1 U
Injection 1 - 90 Day Performance	9/19/2007	5 U	12.2	12.8	0.492	3.69	0.198	1 U	5.9	1.3 J	5 U	5 U	5 U	5 U	10 U	0.24 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-221B																											
Baseline Sampling	2/12/2007		5.08	6.5		2.57	0.05 U	1 U	8.7		1 U														1 U		1 U
Injection 1 - 30 Day Performance	7/11/2007	5 U	3.13	17.5	1.59	2.38	0.174	3.08	1.28	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 60 Day Performance	8/16/2007	5 U	2.97	14.4	0.844	1.69	0.05 U	1 U	0.5	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day / Injection 2 - 30 Day Performance	9/25/2007	5 U	4.68	16.8	0.78	2.06	0.05 U	1 U																			

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
T-23DB																																		
Baseline Sampling	1/24/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.74	20	1852	7.48	-105	438	0.8	12		956	0.01 U	4 U	3 U	28.2	0.206	241	2 U	103	5 U	
Environmental (4th Qrt 2007)	12/13/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.75		1664	7.07	27	441		10			5 U	25.5	24.4						
Environmental (2nd Qrt 2008)	4/25/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.48 J	1 U	0.52		2011	7.28	114	445		10			5 U	8.8	198						
Environmental (4th Qtr. 2008)	10/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	0.38 J	0.21 J	5 U	5 U	5 U	5 U	0.49 J	1 U	0.89		1895	7.38	-25	685		10			5 U	5 U	124						
Environmental (2nd Qtr. 2009)	4/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24		2490	6.95	-64	428		45			5 U	5 U	10 U						
Environmental (4th Qtr. 2009)	10/21/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.67		1640	6.98	-93	233		11			5 U	50 U	14						
Environmental (2nd Qtr. 2010)	4/30/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.74		2700	7.14	-67	250		12			5 U	50 U	17.4						
Environmental (4th Qtr. 2010)	10/27/2010						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.41		2411	7.4	-7	137		5.1			5 U	50 U	14.1						
Environmental (2nd Qtr. 2011)	5/12/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.45		2540	6.76	185	139		2 U			5 U	50 U	10 U						
Environmental (4th Qtr. 2011)	10/18/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.7		3080	6.75	95	100 U		2 U			5 U	50 U	12.2						
Environmental (2nd Qtr. 2012)	4/26/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.65		2400	6.72	70	100 U		2 U			5 U	50 U	10 U						
Environmental (4th Qtr. 2012)	10/24/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.02		2296	7.02	84	100 U		1 U			5 U	50 U	10 U						
Environmental (2nd Qtr. 2013)	4/22/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	8.99		2218	7.06	91	100 U		1 U			5 U	50 U	10 U						
Environmental (4th Qtr. 2013)	10/23/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.71	40	2278	7.16	49	100 U	0.2 U	1.4		855	1 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2014)	4/30/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.29	25	2275	7.06	59	100 U	0.2 U	5		878	0.99 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2014)	10/22/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.45	50	2159	7.15	38	100 U	0.2 U	8.1		877	1 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2015)	5/11/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.61	45	2554	7.07	-44	508	0.2 U	16		1260	0.96 U	5 U	50 U	20.8					
Environmental (4th Qtr. 2015)	10/14/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.54	60	2561	7.06	-22	379	0.2 U	14		1320	0.97 U	5 U	50 U	18					
Environmental (2nd Qtr. 2016)	4/25/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.52	40	2633	7.02	-12	356	0.2	18		1300	0.99 U	5 U	50 U	15.3					
Environmental (4th Qtr. 2016)	11/9/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.82	40	2508	7.11	-9	270	0.2 U	15		1610	1 U	5 U	50 U	14.8					
Environmental (2nd Qtr. 2017)	5/9/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.2 U	35	2468	7.06	-32	424	0.2 U	14		1090	0.97 U	5 U	50 U	23.2					
Environmental (4th Qtr. 2017)	10/24/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.49	40	2465	7.03	-113	289	0.2	15		1150	0.99 U	5 U	50 U	16.8					
Environmental (2nd Qtr. 2018)	4/23/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.42	40	2504	7.04	-86	272	0.2 U	17		1070	0.98 U	5 U	50 U	15.9					
Environmental (4th Qtr. 2018)	10/23/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.7	45	2591	7	-83	210	0.2 U	18		1160	0.98 U	5 U	50 U	14.8					
Environmental (2nd Qtr. 2019)	5/1/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.2 U	35	2617	7.03	-76	212	0.2 U	16		1270	0.98 U	5 U	50 U	0.5					
Environmental (4th Qtr. 2019)	10/24/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.23	35	2690	6.95	-19	197	0.2 U	13		1330	0.01 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2020)	4/24/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.54	40	2561	7	-75	250	0.4	14		1250	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2020)	10/28/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.26	45	2667	6.98	-29	218	0.2 U	18		1230	0.05 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2021)	4/22/2021						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.25	50	2657	6.92	-33	217	0.2 U	18		1300	0.05 U	5 U	50 U	1.1					
Environmental (4th Qtr. 2021)	10/29/2021						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.46	55	2115	6.9	-89	264	0.2 U	25		823	0.05 U	5 U	50 U	0.8					
Environmental (2nd Qtr. 2022)	4/22/2022						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.4	45	1835	6.83	24	105	0.2 U	14		670	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2022)	10/27/2022						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	1.03	25	1766	6.97	92	100 U	0.2 U	1.5 U		617	0.05 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2023)	5/1/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	0.95	45	1936	7.19	-9	180	0.2 U	7.8		703	0.05 U	5 U	50 U	0.3					
Environmental (4th Qtr. 2023)	10/26/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		60	1950	7.1	-56	320	0.2	18		720	0.05 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2024)	4/9/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		35	1953	7.04	-43	370	0.4	25		669	0.05 U	5 U	50 U	0.5					
T-23SB																																		
Baseline Sampling	1/24/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.27	15	686	7.65	35	2300	0.2 U	11		103	0.01 U	4 U	4	43	0.101	276	2 U	7.9	5 U
Environmental (4th Qrt 2007)	12/13/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.99		707	6.96	40	832		19			5 U	5.1	32						
Environmental (2nd Qrt 2008)	4/25/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24		713	7.26	142	2830		15			5 U	7.9	60.5						
Environmental (4th Qtr. 2008)	10/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	0.22 J	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.28		737	7.25	-17	1170		6.4			5 U	5 U	30.7						
Environmental (2nd Qtr. 2009)	4/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.5		765	6.95	-9	647		11			5 U	5 U	22.2						
Environmental (4th Qtr. 2009)	10/21/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.25		766	7.13	-47	475		6.3			5 U	50 U	16.4						
Environmental (2nd Qtr. 2010)	4/30/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.46		787	7.02	-56	402		9.3			5 U	50 U	15.9						
Environmental (4th Qtr. 2010)	10/27/2010						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.27		760	7.38	-43	431		4.5			5 U	50 U	21.6						
Environmental (2nd Qtr. 2011)	5/12/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U						335		9.7			5 U	50 U	13.8						
Environmental (4th Qtr. 2011)	10/18/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.71		855	6.83	-46	281		6.7			5 U	50 U	18						
Environmental (2nd Qtr. 2012)	4/26/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.65		744	6.99	-41	258		11			5 U	50 U	14						
Environmental (4th Qtr. 2012)	10/24/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.67		822	7.1															

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-23DB																											
Baseline Sampling	1/24/2007		3.34	7		2.8	0.05 U	1 U	4		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/13/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.31 J	10 U	5 U	5 U	0.37 J
Environmental (2nd Qrt 2008)	4/25/2008									0.95 JB	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2008)	10/24/2008									20 U	5 U	5 U	5 U	5 U	10 U	0.19 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/27/2009									4.8 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/21/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/30/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/27/2010					2.2				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/12/2011					1.5				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/18/2011					1.3				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/26/2012					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/22/2013					1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/23/2013			10.8		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/30/2014			9.9		2.7				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/22/2014			10.8		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/11/2015			12.9		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/14/2015			11.2		1.2			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/25/2016			8.6		2.2			0.8	1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/9/2016			10.8		2.3			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/9/2017			10.8		1.1			0.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/24/2017			11.8		1			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/23/2018			11.7		1.6			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/23/2018			11.4		1.3			0.5	11	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/1/2019			11.2		1.4			1.1	2.9 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/24/2019			11.9		1.2			0.5	4.6 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	0.47 J	5 U	5 U
Environmental (2nd Qtr. 2020)	4/24/2020			11.4		1.4			0.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/28/2020			11.2		1.5			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/22/2021			11.1		1.2			0.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/29/2021			11.8		1.6			1.5	10 U	5 U	5 U	5 U	5 U	10 U	0.62 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/22/2022			12		1.1			1.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.98 BJ
Environmental (4th Qtr. 2022)	10/27/2022			11.8		1 U			1.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	5/1/2023			11.8		1			2.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/26/2023			12.8		1.1			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/9/2024			12.8		1 U			0.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-23SB																											
Baseline Sampling	1/24/2007		2.58	9.5		2.6	0.05 U	1 U	38.2		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/13/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	4/25/2008									1.1 JB	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2008)	10/24/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/27/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/21/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/30/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/27/2010					1.8				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/12/2011					1.1				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/18/2011					1 U				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/26/2012					1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/22/2013					1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/23/2013			11		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/30/2014			10.1		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/22/2014			10.9		1 U				10 U	5 U	5 U	5 U	0.5 J	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/11/2015			14.1		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/14/2015			11.2		1 U			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/25/2016			8.6		3.3			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/9/2016			10.9		1 U			4.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/9/2017			10.8		1 U			1.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/24/2017			12		1 U			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/23/2018</																										

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)
T-25DB																																	
Baseline Sampling	1/29/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	280 D	210 D	1.4	1 U	1.3	1 U	1 U	1.18	45	1841	7.22	68	189	0.2 U	2 U		150	0.01 U	4 U	3 U	26.3	0.131	429	2 U	362	5 U
Injection 1 - 60 Day Performance	8/15/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	270 D	200 D	1.6 J	1.3 J	1.1 J	1 U	1 U	0.2	125	1960	7.02	64	100 U	0.2 U	1.3 J	0.927	151	0.01 U	5 U	5 U	25.7	0.0749	418	2 U	326	5 U
Injection 1 - 90 Day Performance	9/12/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	300	200	1.3 J	0.76 J	1.1 J	1 U	1 U	0.81	80	1977	6.87	60	100 U	0.2 U	1.4 J	0.777	161	0.01 U	5 U	5 U	21.4	0.115	407	2 U	321	6.93
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/15/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	240	160	1.1 J	10 U	10 U	1 U	1 U	0.86	120	1897	7.04	148	100 U	0.2 U	1.4 J	0.52	171	0.01 U	5 U	5 U	19.4	0.0959	419	2 U	304	5 U
Injection 2 - 90 Day Performance	11/14/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	290	200	1.3 J	0.9 J	1 J	1 U	1 U	1.16	65	1922	7.07	163	100 U	0.2 U	1.2 J	0.544	158	0.01 U	5 U	5 U	19.4	0.128	425	2 U	320	5.87
Injection 2 - 120 Day Performance	12/14/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	240	160	1.3 J	10 U	10 U	1 U	1 U	0.54	55	1578	6.9	100	100 U	0.2 U	1.9 J	0.449	149	0.01 U	5 U	5 U	22.3	0.0856	424	2 U	322	7.97
Injection 3 - 60 Day Performance	1/15/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	120	80	0.58 J	0.4 J	0.44 J	1 U	1 U	0.6	75	1647	6.85	83	100 U	0.2 U	6.3	0.05 U	124	0.01 U	5 U	5 U	21.3	0.05 U	420	2 U	207	14.4
Injection 3 - 90 Day Performance	2/14/2008	1 U	0.5 U	1 U	2 U	1 U	10 U	200	130	1 J	10 U	10 U	1 U	1 U	0.81	60	1726	7.16	124	100 U	0.2 U	2.2	0.294	167	0.01 U	5 U	5 U	22.4	0.0627	422	2 U	306	5 U
Injection 3 - 120 Day Performance	3/17/2008	1 U	0.5 U	1 U	2 U	1 U	10 U	260	150	1.1 J	0.56 J	0.8 J	1 U	1 U	0.74	125	1922	7.02	185	100 U	0.2 U	1.6 J	0.671	158	0.01 U	5 U	5 U	22.5	0.0679	421	2 U	338	10.7
Environmental (2nd Qrt 2008)	5/5/2008	1 U	0.5 U	1 U	2 U	1 U	10 U	220	160	1.1 J	10 U	0.76 J	1 U	1 U	0.56		2073	6.87	173	100 U		1.4 J				5 U	5 U	25.6					
Environmental (3rd Qrt 2008)	8/4/2008	1 U	0.5 U	1.6	2 U	1 U	10 U	200	160	10 U	10 U	10 U	1 U	1 U	0.54		1930	6.75	63	100 U		0.92 JB				5 U	5 U	18					
Environmental (4th Qtr. 2008)	10/23/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	240	170	1.3 J	0.64 J	0.54 J	1 U	1 U	0.51		2660	6.83	4	100 U		0.93 J				5 U	5 U	17.6					
Environmental (1st Qrt 2009)	1/29/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	200	150	5 U	5 U	5 U	1 U	1 U	0.98		1590	7.17	-2	100 U						5 U	50 U	22					
Environmental (2nd Qtr. 2009)	4/24/2009	1 U	0.5 U	1 U	2 U	1 U	10 U	220	180	10 U	10 U	10 U	1 U	1 U	1		2440	7.2	107	100 U						5 U	5 U	17.8					
Environmental (3rd Qtr. 2009)	7/22/2009	1 U	0.5 U	1 U	2 U	1 U	10 U	220	190	1.5 J	10 U	10 U	1 U	1 U	2.4		1970	7.05	116	126					5 U	5 U	25.4						
Environmental (4th Qtr. 2009)	10/26/2009	1 U	0.5 U	1 U	2 U	1 U	10 U	250	210	1.4 J	10 U	2.5 J	1 U	1 U	2		2245	6.83	80	116					5 U	50 U	19.2						
Environmental (1st Qrt 2010)	1/20/2010	1 U	0.5 U	1 U	2 U	1 U	10 U	230	200	1.5 J	1.3 J	2.7 J	1 U	1 U	2.69		1960	6.89	94	232					5 U	5 U	33.3						
Environmental (2nd Qtr. 2010)	4/29/2010	1 U	0.5 U	1 U	2 U	1 U	10 U	200	190	1.2 J	10 U	1.4 J	1 U	1 U	1.17		2270	7.27	23	100 U					5 U	50 U	22.5						
Environmental (3rd Qtr. 2010)	7/26/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	200	160	0.79 J	0.65 J	0.52 J	1 U	1 U	1.75		2120	6.71	43	100 U					5 U	50 U	15.5						
Environmental (4th Qtr. 2010)	11/1/2010						5 U	240 D	230 D	1.6 J	0.95 J	4.2 J	1 U	1 U	0.55	55	2155	6.76	144	100 U	0.2 U	32	0.05 U	200	0.05 U	5 U	50 U	22.1	0.05 U	420	2 U	326	10.2
Environmental (1st Qtr. 2011)	1/25/2011						10 U	210	250	1.5 J	0.92 J	6.4 J	1 U	1 U	0.54	45	1980	6.59	108	100 U	U	110 D	0.181	230	1 U	5 U	50 U	27.4	0.055	410	2 U	388	6.3
Environmental (2nd Qtr. 2011)	5/14/2011						10 U	210	230	2.8 J	0.98 J	1.7 J	1 U	1 U	0.53	50	2300	6.5	170	108	0.2 U	25	0.055	217	1 U	5 U	50 U	28.7	0.05 U	422	2 U	350	6.6
Environmental (3rd Qtr. 2011)	7/8/2011						5 U	180	170	0.96 J	0.71 J	1.8 J	1 U	1 U	1.28	100	1824	6.69	67	103	0.2 U	32	0.068	220	1 U	5 U	50 U	23.2	0.05 U	410	2 U	326	5 U
Environmental (4th Qtr. 2011)	10/24/2011						5 U	190	180	1.5 J	0.73 J	3.9 J	1 U	1 U	0.76	70	1785	6.64	72	100 U	0.2 U	120 D	0.05 U	205	1 U	5 U	50 U	24.8	0.05 U	400	2 U	309	5 U
Environmental (1st Qtr. 2012)	1/30/2012						5 U	160	210 D	1.2 J	0.86 J	5.6	2.5 U	2.5 U	0.99	70	2330	6.56	-34	236	0.3	160	0.05 U	239	1	5 U	50 U	41.6	0.052	420	2 U	352	6
Environmental (2nd Qtr. 2012)	5/1/2012						5 U	230 D	410 D	2.3 J	1.9 J	25	2.5 U	2.5 U	1.8	45	2680	6.57	-19	287		530 D	0.077	262	1 U	5 U	50 U	97.1	0.367	398	2 U	408	5 U
Environmental (3rd Qtr. 2012)	7/19/2012						13 U	260	460	7.4 J	1.7 J	25	10 U	10 U	0.75	50	2573	6.87	-76	526	0.2	540	0.217	271	1 U	5 U	50 U	137	0.465	392	2 U	455	9.2
Environmental (4th Qtr. 2012)	10/23/2012						5 U	130	130	0.84 J	0.59 J	1.3 J	1 U	1 U	1.08	65	1904	6.7	46	100 U	0.2	52	0.05 U	233	1 U	5 U	50 U	33.3	0.072	405	2 U	281	10
Environmental (1st Qtr. 2013)	1/29/2013						5 U	61	85	1 J	5 U	2.6 J	1 U	1 U	1.4	55	1830	6.96	28	160	0.2	34	0.05 U	183	1 U	5 U	50 U	30.3	0.05 U	398	2 U	258	5 U
Environmental (2nd Qtr. 2013)	4/23/2013						5 U	120	120	0.89 J	0.62 J	1.5 J	1 U	1 U	0.91	55	1870	6.91	37	100 UN	0.2 U	5.8	0.05 U	272	1 U	5 U	50 U	36.6	0.05 U	399	2 U	246	5 U
Environmental (4th Qtr. 2013)	10/28/2013						5 U	150	120	0.83 J	5 U	1.2 J	1 U	1 U	1.6	60	1859	6.84	122	100 U	0.2 U	8.3		286	0.98 U	5 U	50 U	20.2					
Environmental (1st Qtr. 2014)	1/30/2014						5 U	130	100	1 J	5 U	0.93 J	1 U	1 U	0.87	50	1775	6.89	78	100 U	0.2 U	14		291	1.1	5 U	50 U	30.6					
Environmental (2nd Qtr. 2014)	4/29/2014						5 U	130	95	0.7 J	5 U	0.67 J	1 U	1 U	1.51	65	1810	6.84	72	100 U	0.2 U	11		305	1 U	5 U	50 U	24.5					
Environmental (3rd Qtr. 2014)	7/23/2014						5 U	110	83	0.76 J	5 U	5 U	1 U	1 U	0.37	60	1800	6.85	70	100 U	0.2 U	8.1		286	1.83	5 U	5 U	20.1					
Environmental (4th Qtr. 2014)	10/26/2014						5 U	120	98	0.74 J	5 U	0.51 J	1 U	1 U	0.47	60	1775	6.88	44	100 U	0.2 U	10		285	1 U	5 U	50 U	21.9					
Environmental (1st Qtr. 2015)	1/22/2015						5 U	130	98	0.92 J	5 U	1.4 J	1 U	1 U	0.53	60	1826	6.93	-152	0.2 U		8.1		324	0.01 U	5 U	50 U	0.4					
Environmental (2nd Qtr. 2015)	4/30/2015						5 U	94	81	3.9 J	5 U	1.3 J	1 U	1 U	0.58	25	1869	6.97	-191	100 U	0.2 U	10		324	0.98 U	5 U	50 U	27.3					
Environmental (3rd Qtr. 2015)	7/27/2015						5 U	87	63	0.53 J	5 U	5 U	1 U	1 U	0.72	55	1811	6.91	47	100 U	0.2 U	10		293	0.97 U	5 U	50 U	22.5					
Environmental (4th Qtr. 2015)	10/8/2015						5 U	62	49	0.77 J	5 U	5 U	1 U	1 U	0.53	55	1752	7	-237	100 U	0.2 U	14		290	0.99 U	5 U	50 U	26.6					
Environmental (1st Qtr. 2016)	3/3/2016						5 U	140	100	1 J	5 U	5 U	1 U	1 U	0.24	50	1636	7.11	105	100 U	0.2	4.4		385	0.98 U	5 U	50 U	13.1					
Environmental (2nd Qtr. 2016)	4/29/2016						5 U	110	78	0.61 J	5 U	5 U	1 U	1 U	0.51	40	1680	6.71	100	100 U	0.2 U	8		326	1 U	5 U	50 U	22.5					
Environmental (3rd Qtr. 2016)	7/12/2016						5 U	93	70	0.54 J	5 U	0.42 J	1 U	1 U	0.54	50	1721	6.95	60	100 U	0.2 U	8.3		325	1 U	5 U	50 U	24.3					
Environmental (2nd Qtr. 2017)	5/22/2017						5 U	96	81	0.78 J	5 U	1.7 J	1 U	1 U	0.49	50	1889	6.91	40	100 U	0.2 U	6.8		368	0.96 U	5 U	50 U	23.5					
Environmental (4th Qtr. 2017)	10/26/2017						5 U	110	77	0.79 J	5 U	5 U	1 U	1 U	0.68	50	1906	6.88	-207	100 U	0.2 U	6.7		357	0.98 U	5 U	50 U	22.6					
Environmental (2nd Qtr. 2018)	4/24/2018																																

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-25DB																											
Baseline Sampling	1/29/2007		3.73	2.4		2.27	0.05 U	1 U	2.9		1 U														1 U		1 U
Injection 1 - 60 Day Performance	8/15/2007	5 U	1.68	14.4	0.2 U	1.26	0.05 U	3.22	2.1	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/12/2007	5 U	1.26	13.2	0.367	1.3	0.05 U	1 U	0.6	1.3 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	0.4 JB	10 U	10 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/15/2007	5 U	1.98	12.7	0.2 U	1.85	0.1 U	1 U	0.96	40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Injection 2 - 90 Day Performance	11/14/2007	5 U	1.93	12.9	0.444	1.94	0.05 U	1 U	1.1	1.3 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	0.44 JB	10 U	10 U
Injection 2 - 120 Day Performance	12/14/2007	5 U	2.12	8.9	0.244	2.14	0.1 U	1 U	2.8	40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Injection 3 - 60 Day Performance	1/15/2008	5 U	2.68	6.7	0.2 U	1.98	0.05 U	1 U	1.2	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/14/2008	5 U	3.02	7.9	0.2 U	2.32	0.05 U	1 U	2.4	40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Injection 3 - 120 Day Performance	3/17/2008	5 U	1.98	7.6	0.208	1.74	0.05 U	1 U	1.7	2 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qrt 2008)	5/5/2008									40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (3rd Qrt 2008)	8/4/2008									40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (4th Qrt. 2008)	10/23/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qrt 2009)	1/29/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/24/2009									40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (3rd Qtr. 2009)	7/22/2009									40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (4th Qtr. 2009)	10/26/2009									40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (1st Qrt 2010)	1/20/2010									3.9 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qtr. 2010)	4/29/2010									40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (3rd Qtr. 2010)	7/26/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	11/1/2010	4.7 U		9.3	0.2 U	3.2	0.05 U			20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.23 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2011)	1/25/2011	4.6 U			0.2 U	2.4				40 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qtr. 2011)	5/14/2011	4.7 U		13.6	0.2 U	2.1			3.7	40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U
Environmental (3rd Qtr. 2011)	7/8/2011	4.7 U		16.2	1.76	1.6			6.7	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/24/2011	5.1 U		11.8	0.22	1.7			2.2	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2012)	1/30/2012	4.8 U		9.1	0.2 U	1.5			2.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	5/1/2012	4.8 U		11.6	0.59	2.4			0.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.22 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2012)	7/19/2012	4.7 U		16.5	0.65	2.6			1.3	25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	13 U
Environmental (4th Qtr. 2012)	10/23/2012	4.7 U		11.6	0.21	1.8			0.6	1.6 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2013)	1/29/2013	4.8 U		8.7	0.2 U	1.6			2.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/23/2013	4.7 U		10.7	0.2 U	1.6			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/28/2013			11		1.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2014)	1/30/2014			9.4		1.8			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/29/2014			11.3		1.7				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2014)	7/23/2014			15.7		1.7				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/26/2014			11.3		1.6				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2015)	1/22/2015			8.8		1.6			4.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	4/30/2015			12.3		1.6				1.7 J	5 U	5 U	5 U	5 U	10 U	0.61 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2015)	7/27/2015			14.6		1.6				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/8/2015			12		2			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2016)	3/3/2016			8.9		5			1	1.9 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/29/2016			8.6		1 U			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2016)	7/12/2016			12.9		3.9			2.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/22/2017			12		1.6			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/26/2017			11.9		1.4			1.9	10 U	5 U	5 U	5 U	5 U	10 U	0.25 BJ	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/24/2018			12.2		1.5			1	1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/25/2018			11		2.8			2.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/1/2019			11.7		1.5			4.7	10 U	5 U	5 U	5 U	5 U	10 U	0.88 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/25/2019			11.6		1.4			1.4	4.4 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.7 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/24/2020			11.4		1.6			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/29/2020			11.4		1.7			3	10 U	5 U	5 U	5 U	0.75 J	10 U	0.49 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/27/2021			12.3		1.6			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/29/2021			11.6		1.6			1.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/26/2022			10.9 *		1 U			0.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/27/2022			11.3		1 U			1.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/27/2023			11.7		1.1			3.8	10 U	5 U	5 U	5 U	5 U													

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMN (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
Well	Date																																	
T-25SB																																		
Baseline Sampling	1/29/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	480 D	350 D	2.2	1.7	3.7	1 U	1 U	1.92	75	3030	7.15	96	100 U	0.2 U	3		165	0.01 U	4 U	3 U	58.5	0.616	436	2 U	476	5 U	
Injection 1 - 60 Day Performance	8/13/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	460 D	330 D	2.8 J	1.9 J	4.1 J	1 U	1 U	0.97	155	4800	6.95	59	100 U	0.2 U	2.9	1.24	181	0.01 U	5 U	5 U	47.6	0.853	404	2 U	575	9.01	
Injection 1 - 90 Day Performance	9/12/2007	1 U	0.5 U	1 U	2 U	1 U	13 U	400	270	1.8 J	1.2 J	2.5 J	1 U	1 U	2.12	205	3130	6.95	56	100 U	0.2 U	1.2 J	1.31	200	0.01 U	5 U	5 U	16.1	0.906	405	2 U	599	7.97	
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/16/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	300	210	1.4 J	1.1 J	3.7 J	1 U	1 U		105	3110	6.97	122	305	0.2 U	47	0.656	200	0.01 U	5 U	5 U	49.6	0.805	436	2 U	546	6.22	
Injection 2 - 90 Day Performance	11/14/2007	1 U	0.5 U	1 U	2 U	1 U	25 U	440	310	2.2 J	1.7 J	2.6 J	1 U	1 U		95	2985	6.97	62	329	0.2 U	1.8 J	0.692	176	0.01 U	5 U	5 U	30.9	0.988	418	2 U	449	27.5	
Injection 2 - 120 Day Performance	12/14/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	440 D	280	1.8 J	1.2 J	1.4 J	1 U	1 U		140	1812	6.44	168	170	0.2	1.9 J	0.848	147	0.01 U	5 U	5 U	38.1	0.686	423	2 U	409	15.8	
Injection 3 - 60 Day Performance	1/18/2008	1 U	0.5 U	1 U	2 U	1 U	13 U	410	280	2.1 J	1.1 J	1.9 J	1 U	1 U		165	1824	6.52	162	230	0.4	3	1.99	161	0.01 U	5 U	5 U	27	0.713	435	2 U	437	5 U	
Injection 3 - 90 Day Performance	2/19/2008	1 U	0.5 U	1 U	2 U	1 U	13 U	380	260	1.6 J	1.2 J	1.7 J	1 U	1 U	2.1	70	2780	7.21	61	121	0.2 U	1.2 J	1.86	169	0.01 U	5 U	5 U	31.6	0.751	458	2 U	465	5 U	
Injection 3 - 120 Day Performance	3/17/2008	1 U	0.5 U	1 U	2 U	1 U	13 U	460	270	1.8 J	1.1 J	2.6 J	1 U	1 U	0.45	110	2575	6.9	63	100 U	0.2 U	2.7	1.63	175	0.01 U	5 U	5 U	31.7	0.583	428	2 U	478	12.7	
Environmental (2nd Qtr 2008)	5/5-5/6/2008	1 U	0.5 U	1 U	2 U	1 U	13 U	380	280	1.7 J	1.2 J	2.4 J	1 U	1 U	0.59		2905	6.75	172	100 U						5 U	5 U	45.2						
Environmental (3rd Qtr 2008)	8/4/2008	1 U	0.5 U	1.9	2 U	1 U	13 U	330	270	1.2 J	1 J	3.2 J	1 U	1 U	0.43		2780	6.73	88	146						5 U	5 U	76.3						
Environmental (4th Qtr. 2008)	10/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	400	340	2.1 J	1.7 J	1.6 J	1 U	1 U	0.57		3660	6.83	4	100 U		0.74 J				5 U	5 U	15.4						
Environmental (1st Qtr 2009)	1/30/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	330	330	5 U	5 U	5 U	1 U	1 U	0.93		2060	7.04	6	100 U						5 U	50 U	21						
Environmental (2nd Qtr. 2009)	4/24/2009	1 U	0.5 U	1 U	2 U	1 U	13 U	390	450	13 U	13 U	17	10 U	10 U	0.8		3340	7.05	96	109						5 U	5 U	43.3						
Environmental (3rd Qtr. 2009)	7/22/2009	1 U	0.5 U	1 U	2 U	1 U	13 U	380	490	3.1 J	2.1 J	18	1.6	1 U	0.66		3070	6.86	26	101						5 U	5 U	62.3						
Environmental (4th Qtr. 2009)	10/23/2009	1 U	0.5 U	1 U	2 U	1 U	13 U	460	500	2.7 J	2 J	13 J	4 U	4 U	0.33		3141	6.94	53	100 U						5 U	50 U	85.6						
Environmental (1st Qtr 2010)	1/20/2010	1 U	0.5 U	1 U	2 U	1 U	25 U	460	640	3.8 J	3.5 J	26	5 U	5 U	0.76		2160	6.72	24	116						5 U	5 U	117						
Environmental (2nd Qtr. 2010)	4/28/2010	1 U	0.5 U	1 U	2 U	1 U	13 U	320	460	4.4 J	1.8 J	15	5 U	5 U	1.91		3010	7.11	13	211						5 U	50 U	83.2						
Environmental (3rd Qtr. 2010)	7/26/2010	1 U	0.5 U	1 U	2 U	1 U	13 U	340	460	2.1 J	1.9 J	23	5 U	5 U	2.58		2920	6.76	23	114						5 U	50 U	115						
Environmental (4th Qtr. 2010)	11/1/2010						13 U	510 D	800 D	5 J	3.2 J	36	1 U	1 U	0.42	70	3079	6.75	56	100 U	0.2 U	220 D	0.096	259	0.05 U	5 U	50 U	138	0.514	430	2 U	573	16.7	
Environmental (1st Qtr. 2011)	1/25/2011						13 U	410	630 D	3 J	2.1 J	18	2.5 U	2.5 U	1.6	45	2850	6.58	102	100 U	U	270 D	0.41	224	1 U	5 U	50 U	92.5	0.384	427	2	434	8.9	
Environmental (2nd Qtr. 2011)	5/14/2011						25 U	390	620	4.8 J	3.2 J	26	10 U	10 U	4.85	75	2630	6.67	167	540	0.2	740	0.201	251	1 U	5 U	50 U	95.1	0.386	432	2 U	498	10.2	
Environmental (3rd Qtr. 2011)	7/8/2011						25 U	330	480	3.7 J	1.7 J	25 J	10 U	10 U	1.61	90	3060	6.72	-103	365	0.4	1700 D	0.185	275	1 U	5 U	50 U	106	0.388	418	2 U	559	5.3	
Environmental (4th Qtr. 2011)	10/24/2011						13 U	370	580 D	4.1 J	2.4 J	29	10 U	10 U	1.74	70	3760	6.7	28	107	0.2	1300 D	0.14	298	1 U	5 U	50 U	130	0.458	420	2 U	537	5 U	
Environmental (1st Qtr. 2012)	1/30/2012						13 U	340	530 D	2.2 J	2.3 J	23	10 U	10 U	2.37	60	2850	6.67	23	100 U	0.2	740	0.15	314	1.1	5 U	50 U	95.2	0.327	418	2 U	477	13.6	
Environmental (2nd Qtr. 2012)	5/1/2012						5 U	130	180	1.1 J	0.88 J	4.3 J	2 U	2 U	0.62	50	2170	6.41	-31	175		160	0.05 U	222	1.3	5 U	50 U	36	0.059	401	2 U	322	6	
Environmental (3rd Qtr. 2012)	7/19/2012						5 U	130	180	2.3 J	0.78 J	2.7 J	1 U	1 U	0.9	50	1938	6.88	-31	248	0.2	71	0.05 U	205	1 U	5 U	50 U	33.8	0.065	396	2 U	308	5.7	
Environmental (4th Qtr. 2012)	10/23/2012						5 U	170 D	280 D	2.4 J	1.8 J	9.9	1.1	1 U	1.03	70	2297	6.72	-5	122	0.2 U	130 D	0.068	370	1.1 U	5 U	50 U	98.9	0.439	380	2 U	331	5.1	
Environmental (1st Qtr. 2013)	1/29/2013						13 U	310	360	3.5 J	1.8 J	11 J	2 U	2 U	1.21	50	2303	6.83	-3	145	0.2	99	0.372	374	1.1 U	5 U	50 U	86.3	0.434	385	2 U	301	5.1	
Environmental (2nd Qtr. 2013)	4/23/2013						13 U	250	310	2.7 J	1.5 J	9.9 J	1 U	1 U	2	50	2234	6.88	16	119 UN	0.2 U	28	0.296	375	1 U	5 U	50 U	77	0.346	397	2 U	297	5 U	
Environmental (4th Qtr. 2013)	10/28/2013						13 U	290	270	2.3 J	1.3 U	8.3 J	1.7	1 U	0.95	85	2195	6.77	-11	320	0.3	42		382	0.98 U	5 U	50 U	53.3						
Environmental (1st Qtr. 2014)	1/30/2014						13 U	260	240	6.6 J	13 U	9.3 J	1.1	1 U	1.51	50	2084	6.96	-33	191	0.2 U	34		381	1 U	5 U	50 U	53.3						
Environmental (2nd Qtr. 2014)	4/29/2014						10 U	250	220	1.8 J	10 U	14	4.1	1 U	1.6	60	2164	6.86	-23	313	0.4	59		380	1 U	5 U	50 U	61.7						
Environmental (3rd Qtr. 2014)	7/23/2014						10 U	180	200	2.6 J	10 U	6.7 J	1.4	1 U	0.85	50	2219	6.92	13	367	0.2	26		421	2.47	5 U	5 U	47.1						
Environmental (4th Qtr. 2014)	10/26/2014						10 U	220	230	1.6 J	10 U	6.9 J	1.7	1 U	0.97	75	1963	7.06	-75	216	0.2 U	54		378	1 U	5 U	50 U	42.7						
Environmental (1st Qtr. 2015)	1/20/2015						10 U	220	210	2 J	10 U	7 J	1	1 U	1.92	65	2071	6.96	-44	0.2 U		38		412	0.01 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2015)	4/30/2015						10 U	190	230	13	10 U	6.9 J	1 U	1 U	0.94	45	2256	6.9	-151	209	0.3	19		476	0.98 U	5 U	50 U	53.7						
Environmental (3rd Qtr. 2015)	7/27/2015						10 U	200	190	2.3 J	10 U	9.9 J	1.2	1 U	1.93	70	2047	7.02	-62	403	0.2 U	26		438	0.97 U	5 U	50 U	37.1						
Environmental (4th Qtr. 2015)	10/8/2015						5 U	190	190	6.7	0.76 J	10	1 U	1 U	2.33	45	1969	7.14	-211	1430	0.2 U	26		395	0.99 U	5 U	50 U	34.7						
Environmental (1st Qtr. 2016)	3/3/2016						5 U	200 D	190 D	2.1 J	0.77 J	5.5	1 U	1 U	1.49	50	1874	7.1	52	125	0.2 U	38		412	0.97 U	5 U	50 U	36.2						
Environmental (2nd Qtr. 2016)	4/29/2016						10 U	210	210	1.5 J	10 U	6.1 J	1 U	1 U	1.9	40	1913	6.92	17	174	0.2 U	38		413	1 U	5 U	50 U	34.7						
Environmental (3rd Qtr. 2016)	7/12/2016						10 U	210	180	1.3 J	10 U	2.7 J	1 U	1 U	1.02	45	2122	6.96	45	100 U	0.2 U	14		431	0.97 U	5 U	50 U	34.5						
Environmental (2nd Qtr. 2017)	5/22/2017						10 U	130	200	1.7 J	10 U	4.4 J	1 U	1 U	0.37	40	2520	6.91	-26	243	0.2 U	17		424	0.98 U	5 U	50 U	52.3						
Environmental (4th Qtr. 2017)	10/26/2017						10 U	180	150	1.6 J	10 U	3.1 J	1 U	1 U	1.16	45	2216	7																

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-25SB																											
Baseline Sampling	1/29/2007		4.02	3.5		2.68	0.05 U	1 U	2.5		1 U														1 U		1 U
Injection 1 - 60 Day Performance	8/13/2007	5 U	1.89	14.4	1.16	1.72	0.05 U	1.24	2.5	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/12/2007	5 U	1.95	15.4	1.17	1.81	0.05 U	1 U	2.9	3.7 J	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	0.52 JB	13 U	13 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/16/2007	5 U	4.04	12.7	1.04	3.58	0.1 U	1 U	5.8	4.8 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Injection 2 - 90 Day Performance	11/14/2007	5 U	2.7	11.1	2.08	2.72	0.287	1 U	3.4	3.2 J	25 U	25 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U	50 U	1.1 JB	25 U	25 U
Injection 2 - 120 Day Performance	12/14/2007	5 U	2.9	8.6	1.2	3.54	0.161	1 U	4.7	40 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Injection 3 - 60 Day Performance	1/18/2008	5.45 U	5.08	8.7	0.838	2.86	0.154	1 U	4.1	50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Injection 3 - 90 Day Performance	2/19/2008	5 U	2.63	4.9	0.842	2.34	0.0719	1 U	4.2	50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Injection 3 - 120 Day Performance	3/17/2008	5.05 U	2.52	8.8	0.828	2.23	0.05 U	1 U	2.8	2.8 J	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (2nd Qrt 2008)	5/5-5/6/2008									50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (3rd Qrt 2008)	8/4/2008									50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (4th Qrt. 2008)	10/24/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (1st Qrt 2009)	1/30/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2009)	4/24/2009									50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (3rd Qtr. 2009)	7/22/2009									50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (4th Qtr. 2009)	10/23/2009									50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	0.58 J	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (1st Qrt 2010)	1/20/2010									100 U	25 U	25 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U
Environmental (2nd Qtr. 2010)	4/28/2010									50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (3rd Qtr. 2010)	7/26/2010									11 J	13 U	13 U	13 U	13 U	25 U	25 U	13 U	0.95 J	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (4th Qtr. 2010)	11/1/2010	4.7 U		9.9	0.74	4.2	0.05 U			50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (1st Qtr. 2011)	1/25/2011	4.7 U			0.57	3.1				50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (2nd Qtr. 2011)	5/14/2011	4.8 U		13	0.54	2.8			15.6	100 U	25 U	25 U	25 U	25 U	50 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	
Environmental (3rd Qtr. 2011)	7/8/2011	4.8 U		13.1	0.58	2.6			6	100 U	25 U	25 U	25 U	25 U	50 U	50 U	25 U	1.9 J	25 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	
Environmental (4th Qtr. 2011)	10/24/2011	4.7 U		10.9	0.74	2.7			3.1	3.8 J	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (1st Qtr. 2012)	1/30/2012	4.7 U		9.8	0.33	2.1			2	25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (2nd Qtr. 2012)	5/1/2012	4.7 U		11.7	0.2 U	1.8			0.1	10 U	5 U	5 U	5 U	0.31 BJ	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (3rd Qtr. 2012)	7/19/2012	4.7 U		15.6	0.28	1.8			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2012)	10/23/2012	4.7 U		11.7	0.69	2.1			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (1st Qtr. 2013)	1/29/2013	4.7 U		10.5	1.36	1.9			1.6	25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (2nd Qtr. 2013)	4/23/2013	4.7 U		11.5	0.56	1.9			2.4	25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (4th Qtr. 2013)	10/28/2013			11.6		1.8				25 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (1st Qtr. 2014)	1/30/2014			9.9		2.1			1.9	4 J	13 U	13 U	13 U	13 U	25 U	0.9 J	13 U	0.85 J	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	
Environmental (2nd Qtr. 2014)	4/29/2014			11.6		1.9				20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (3rd Qtr. 2014)	7/23/2014			15.3		3.3				20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	1.8 J	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (4th Qtr. 2014)	10/26/2014			11.6		1.8				20 U	10 U	10 U	10 U	0.8 J	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (1st Qtr. 2015)	1/20/2015			9.6		1.7			2.7	20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (2nd Qtr. 2015)	4/30/2015			12.3		1.9				3.3 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (3rd Qtr. 2015)	7/27/2015			13		1.7				20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	0.56 J	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (4th Qtr. 2015)	10/8/2015			12.3		1.7			3.1	2.1 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (1st Qtr. 2016)	3/3/2016			10.7		4.6			1.9	1.9 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2016)	4/29/2016			8.2		1 U			1.8	20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (3rd Qtr. 2016)	7/12/2016			12.2		3.3			3.1	20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (2nd Qtr. 2017)	5/22/2017			12		2.6			4.8	20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (4th Qtr. 2017)	10/26/2017			11.6		2.1			2.3	20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	0.6 J	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	
Environmental (2nd Qtr. 2018)	4/24/2018			12.6		2.9			0.9	1.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (4th Qtr. 2018)	10/25/2018			10.9		4.3			1.5	4.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	
Environmental (2nd Qtr. 2019)	5/1/2019			12.1		1.9			2.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	0.58 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (4th Qtr. 2019)	10/25/2019			11.3		1.9			0.9	2.4 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (2nd Qtr. 2020)	4/24/2020			11.5		1.7			6.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (4th Qtr. 2020)	10/29/2020			11.2		2.2			3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (2nd Qtr. 2021)	4/27/2021			12.2		1.9			0.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.34 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (4th Qtr. 2021)	10/29/2021			11.7		1.9			2.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (2nd Qtr. 2022)	4/26/2022			10.5 J		1.4			0.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (4th Qtr. 2022)	10/27/2022			11.3		1.5			2.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (2nd Qtr. 2023)	4/27/2023			12		1.6			3.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	
Environmental (4th																											

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
T-26SE																																		
Baseline Sampling	2/7/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	110	60	1 U	1 U	1 U	1 U	1 U	2.76	40	940	7.24	113	397	0.2 U	2 U			193	0.01 U	4 U	3 U	23.6	0.05 U	318	2 U	54.3	9.87
Injection 1 - 60 Day Performance	8/13/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	190 D	130	1.2 J	0.86 J	0.76 J	1 U	1 U	1.98	60	1320	7.16	62	194	0.2 U	0.6 JB		0.44	158	0.01 U	5 U	5 U	22.6	0.0514	390	2 U	130	5 U
Injection 1 - 90 Day Performance	9/12/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	190	120	1 J	0.56 J	0.76 J	1 U	1 U	2.19	215	1268	6.91	82	100 U	0.2 U	0.85 JB		0.366	159	0.01 U	5 U	5 U	14.9	0.054	360	2 U	120	6.93
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/18/2007	1 U	0.5 U	1 U	2 U	1 U	13 U	240	150	1.3 J	13 U	13 U	1 U	1 U	1.94	90	1214	7.13	106	100 U	0.2 U	1.2 J		0.302	170	0.01 U	5 U	5 U	14.1	0.05 U	372	2 U	115	6.22
Injection 2 - 90 Day Performance	11/14/2007	1 U	0.5 U	1 U	2 U	1 U	10 U	220	140	1.1 J	0.76 J	1 J	1 U	1 U	1.23	70	1294	7.18	147	100 U	0.2 U	1.3 J		0.222	146	0.01 U	5 U	5 U	17.1	0.05 U	377	2 U	115	10.7
Injection 2 - 120 Day Performance	12/20/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	150	80	0.71 J	5 U	0.53 J	1 U	1 U	1.79	60	1551	6.97	9	100 U	0.2 U	2 U		0.436	547	0.01 U	5 U	5 U	10 U	0.05 U	185	2 U	73.7	5 U
Injection 3 - 60 Day Performance	1/16/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	130	81	0.63 J	0.34 J	5 U	1 U	1 U	3.49	70	1604	7.14	143	140	0.2 U	2 U		0.694	489	0.01 U	5 U	5 U	10 U	0.05 U	310	2 U	121	5 U
Injection 3 - 90 Day Performance	2/14/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	140	79	0.67 J	0.4 J	5 U	1 U	1 U	2.81	50	1679	7.25	181	100 U	0.2 U	2 U		0.672	477	0.01 U	5 U	5 U	10 U	0.05 U	372	2 U	125	5 U
Injection 3 - 120 Day Performance	3/17/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	130	79	0.62 J	0.36 J	0.3 J	1 U	1 U	4.21	75	1693	7.28	178	100 U	0.2 U	2 U		0.661	430	0.01 U	5 U	5 U	10 U	0.05 U	320	2 U	149	10.1
Environmental (2nd Qrt 2008)	4/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	130	80	0.66 J	0.44 J	0.34 J	1 U	1 U	2.21		2006	6.98	168	219		2 U					5 U	5 U	10 U					
Environmental (3rd Qrt 2008)	8/4/2008	1 U	0.5 U	1.7	2 U	1 U	5 U	180	120	0.76 J	0.47 J	0.92 J	1 U	1 U	1.12		1647	6.85	48	100 U		1 JB					5 U	5 U	10 U					
Environmental (4th Qrt. 2008)	10/23/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	190 D	120	1 J	0.53 J	0.74 J	1 U	1 U	0.81		1268	6.98	207	100 U		0.44 J					5 U	5 U	10 U					
Environmental (1st Qtr 2009)	1/30/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	130	81		5 U	5 U	1 U	1 U	1.72		1802	7.12	1	100 U		2 U					5 U	50 U	10 U					
Environmental (2nd Qtr. 2009)	4/28/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	100	79	0.57 J	5 U	2.2 J	1 U	1 U	1.15		1888	6.75	72	100 U		90					5 U	5 U	10 U					
Environmental (3rd Qtr. 2009)	7/22/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	150	110	0.93 J	5 U	2 J	1 U	1 U	1.46		1853	7.03	87	100 U		30					5 U	5 U	10 U					
Environmental (4th Qtr. 2009)	10/21/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	160	100	0.86 J	5 U	0.79 J	1 U	1 U	1.59		1449	6.92	78	186		2.4					5 U	50 U	14.5					
Environmental (1st Qrt 2010)	1/21/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	100	54	0.72 J	5 U	5 U	1 U	1 U	3.79		1527	7.18	113	112		2 U					5 U	5 U	10 U					
Environmental (2nd Qtr. 2010)	5/3/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	110	70	0.6 J	5 U	5 U	1 U	1 U	3.09		1859	7.02	63	100 U		2 U					5 U	50 U	10 U					
Environmental (3rd Qtr. 2010)	7/26/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	90	60	0.59 J	5 U	0.78 J	1 U	1 U	4.18		1913	6.88	60	114		2 U					5 U	50 U	10 U					
Environmental (4th Qtr. 2010)	11/2/2010						5 U	100	67	0.77 J	5 U	5 U	1 U	1 U	2.59	55	2117	6.96	184	100 U	0.2 U	2 U		0.28	880	0.05 U	5 U	50 U	10 U	0.05 U	320	2 U	72.2	5 U
Environmental (1st Qtr. 2011)	1/25/2011						5 U	89	59	0.44 J	5 U	5 U	1 U	1 U	2.58	50	1643	6.82	169	100 U	U	2 U		0.124	777	1 U	5 U	50 U	10 U	0.05 U	270	2 U	76	5 U
Environmental (2nd Qtr. 2011)	5/14/2011						5 U	120	200	1.5 J	0.83 J	23	1 U	1.5	2.87	65	2390	6.6	197	100 U	0.2 U	1200 D		0.05 U	484	1 U	5 U	50 U	10 U	0.05 U	334	4	281	10.5
Environmental (3rd Qtr. 2011)	7/7/2011						5 U	100	120	0.75 J	0.49 J	12	10 U	10 U	3.76	100	2280	6.83	127	100 U	0.2 U	790		0.092	592	1 U	5 U	50 U	48.8	0.05 U	273	2 U	301	6.3
Environmental (4th Qtr. 2011)	10/24/2011						5 U	92	66	0.5 J	0.32 J	0.49 J	1 U	1 U	3.24	50	1935	6.68	142	100 U	0.2 U	2.8		0.267	942	1 U	5 U	50 U	10 U	0.05 U	275	2 U	68.7	5 U
Environmental (1st Qtr. 2012)	1/30/2012						5 U	48	31	0.24 J	5 U	5 U	1 U	1 U	4.98	45	1553	6.67	110	100 U	0.2 U	2 U		0.232	703	1 U	5 U	50 U	10 U	0.05 U	248	2 U	50.6	6
Environmental (2nd Qtr. 2012)	5/2/2012						5 U	49	31	0.29 J	5 U	5 U	1 U	1 U	4.68	50	1696	7.18	104	100 U		2 U		0.254	674	1 U	5 U	50 U	10 U	0.05 U	249	2 U	51.5	5 U
Environmental (3rd Qtr. 2012)	7/19/2012						5 U	95	67	0.85 J	5 U	0.45 J	1 U	1 U	3.53	60	1650	7.03	96	100 U	0.2 U	4.5		0.097	609	1 U	5 U	50 U	10 U	0.05 U	270	2 U	89.7	7.6
Environmental (4th Qtr. 2012)	10/22/2012						5 U	67	44	0.48 J	5 U	5 U	1 U	1 U	2.6	55	1972	6.91	104	100 U	0.2 U	1.2		0.145	842	1 U	5 U	50 U	10 U	0.05 U	270	2 U	58.1	7.9
Environmental (1st Qtr. 2013)	1/28/2013						5 U	66	40	0.42 J	5 U	5 U	1 U	1 U	3.41	60	1675	6.97	100	100 U	0.2 U	1 U		0.295	652	1.1 U	5 U	50 U	10 U	0.05 U	270	2 U	57.7	5 U
Environmental (2nd Qtr. 2013)	4/24/2013						5 U	63	32	0.66 J	5 U	5 U	1 U	1 U	6.4	65	1678	7.07	129	100 UN	0.2 U	1 U		0.467	745	1 U	5 U	50 U	10 U	0.05 U	261	2 U	52.3	5 U
Environmental (4th Qtr. 2013)	10/29/2013						250 U	94 J	22 J	250 U	250 U	250 U	1 U	27	0.65		11810	6.76	-166	36000		4.1			397	1 U	5 U	50 U	2710					
Environmental (1st Qtr. 2014)	1/31/2014						250 U	160 J	50 J	250 U	250 U	250 U	3.1	21	0.61		7369	6.44	-172	46000		5.2			310	1 U	5 U	50 U	945					
Environmental (2nd Qtr. 2014)	4/28/2014						500 U	970	250 J	500 U	500 U	500 U	7.1	15	0.57		11590	6.3	-201	66000		2500 D			131	5 U	5 U	50 U	1300					
Environmental (3rd Qtr. 2014)	7/23/2014						500 U	260 J	180 J	500 U	500 U	500 U		100	7.5		9989	6.33	-102	59000		41000 D			697	4 U	50 U	69.4	6770					
Environmental (4th Qtr. 2014)	10/27/2014						1000 U	2600	1900	1000 U	1000 U	1000 U	18	29			8126	6.65	-176	5680		66000			107	6.6	5 U	50 U	45.8					
Environmental (1st Qtr. 2015)	1/22/2015						1000 U	92 J	280 J	1000 U	1000 U	1000 U	250 U	250 U			3693	6.33	-335	10500		19000			334	10	25 U	250 U	652					
Environmental (2nd Qtr. 2015)	4/30/2015						1000 U	100 J	310 J	1000 U	1000 U	1000 U	250 U	250 U			7389	6.26	-232	20100		21000			195		5 U	50 U	681					
Environmental (3rd Qtr. 2015)	7/28/2015						1000 U	46 J	1000 U	1000 U	1000 U	1000 U	250 U	250 U						18900		20000			102	2	5 U	50 U	836					
Environmental (4th Qtr. 2015)	10/8/2015						250 U	15 J	210 J	250 U	250 U	31 J	250 U	250 U			6270	6.27	-241	14800		21000			65	5 U	5 U	50 U	876					
Environmental (4th Qtr. 2021)	10/29/2021						500 U	500 U	80 J	500 U	500 U	500 U	250 U	280 U			3274	6.18	-116	21200		20000			231		5 U	50 U	480					
Environmental (2nd Qtr. 2022)	5/3/2022						500 U	500 U	82 J	500 U	500 U	500 U	250 U	280 U	2.59		2677	6.04	-204	11000 E		13000			234		5 U	50 U	369 E					
Environmental (4th Qtr. 2022)	10/27/2022						500 U	500 U	78 J	500 U	500 U	500 U	600 U	825 U	0.31		2590	6.08	-227	4510		7470			9.1		5 U	50 U	283					
Environmental (2nd Qtr. 2023)	5/2/2023						500 U	500 U	71 J	500 U	500 U	500 U	2.4 U	3.3 U	1.6		2391	6.43	-256	3450		5620			20.8									

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-26SB																											
Baseline Sampling	2/7/2007		5.06	4.4		3.4	0.05 U	1 U	8.2		1 U														1 U		1 U
Injection 1 - 60 Day Performance	8/13/2007	5 U	1.7	15.9	0.2 U	1.48	0.05 U	5.3	15.6	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/12/2007	5 U	1.65	15.2	0.287	1.54	0.05 U	1 U	8.8	1.3 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/18/2007	5 U	1.89	15.4	0.4 U	1.88	0.1 U	1 U	4.4	50 U	13 U	13 U	13 U	13 U	25 U	25 U	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	13 U
Injection 2 - 90 Day Performance	11/14/2007	5 U	2.58	12.7	0.394	2.14	0.05 U	1 U	2.6	1.8 J	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	0.44 JB	10 U	10 U
Injection 2 - 120 Day Performance	12/20/2007	5 U	3.73	9.1	0.215	2.14	0.05 U	1 U	3.1	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 60 Day Performance	1/16/2008	5 U	2.62	8.4	0.271	2.38	0.05 U	1 U	2.4	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/14/2008	5 U	2.57	8	0.2 U	2.37	0.05 U	1 U	3.3	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 120 Day Performance	3/17/2008	5 U	2.34	8	0.2 U	1.89	0.05 U	1 U	1.8	0.52 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	4/24/2008									0.98 JB	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qrt 2008)	8/4/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt. 2008)	10/23/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qrt 2009)	1/30/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt. 2009)	4/28/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2009)	7/22/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt. 2009)	10/21/2009									1.8 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	0.51 J	5 U
Environmental (1st Qrt 2010)	1/21/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	5/3/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2010)	7/26/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	11/2/2010	4.7 U		11.7	0.42	2.2	0.05 U			20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2011)	1/25/2011	4.6 U			0.2 U	1.6				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/14/2011	4.6 U		13.2	0.2 U	2.2			2	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2011)	7/7/2011	4.7 U		17.5	0.2 U	1.7			5.8	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/24/2011	4.8 U		11.9	0.2 U	1.3			2.5	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2012)	1/30/2012	4.8 U		10.4	0.58	1.1			3.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	5/2/2012	2820		13.1	0.2 U	1.5			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2012)	7/19/2012	4.7 U		14.5	0.24	1.5			2.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/22/2012	4.7 U		13.6	0.2 U	1.3			1.7	1.8 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2013)	1/28/2013	4.7 U		10	0.2 U	1 U			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	0.64 J	5 U
Environmental (2nd Qtr. 2013)	4/24/2013	4.7 U		11	0.2 U	1.1			2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/29/2013			12.6		154000				500 U	250 U	250 U	250 U	250 U	500 U	500 U	250 U	250 U	250 U	250 U	250 U	500 U	250 U	500 U	250 U	250 U	250 U
Environmental (1st Qtr. 2014)	1/31/2014			8.7		92600				500 U	250 U	250 U	250 U	250 U	89 J	500 U	250 U	14 J	250 U	250 U	250 U	500 U	250 U	500 U	250 U	250 U	250 U
Environmental (2nd Qtr. 2014)	4/28/2014			11.5		12700				1000 U	500 U	500 U	500 U	500 U	200 J	1000 U	500 U	500 U	500 U	500 U	500 U	1000 U	500 U	1000 U	500 U	500 U	500 U
Environmental (3rd Qtr. 2014)	7/23/2014			16.9		11700				1000 U	500 U	36 J	500 U	500 U	1000 U	1000 U	500 U	240 J	500 U	500 U	500 U	1000 U	500 U	1000 U	38 J	500 U	500 U
Environmental (4th Qtr. 2014)	10/27/2014			12.8		68400				2000 U	52 J	1000 U	1000 U	1000 U	340 J	52 J	1000 U	1000 U	1000 U	1000 U	1000 U	2000 U	1000 U	2000 U	1000 U	1000 U	1000 U
Environmental (1st Qtr. 2015)	1/22/2015			10		7100				2000 U	1000 U	1000 U	1000 U	1000 U	190 J	2000 U	1000 U	220 J	1000 U	1000 U	1000 U	2000 U	1000 U	2000 U	1000 U	1000 U	1000 U
Environmental (2nd Qtr. 2015)	4/30/2015			11.8		2970				340 J	1000 U	1000 U	1000 U	1000 U	480 J	2000 U	1000 U	230 J	1000 U	1000 U	1000 U	2000 U	1000 U	2000 U	1000 U	1000 U	1000 U
Environmental (3rd Qtr. 2015)	7/28/2015					3040				290 J	1000 U	1000 U	1000 U	1000 U	840 J	2000 U	1000 U	390 J	1000 U	1000 U	1000 U	2000 U	1000 U	2000 U	1000 U	1000 U	1000 U
Environmental (4th Qtr. 2015)	10/8/2015			12.2		3420				290 J	250 U	250 U	250 U	250 U	770	500 U	250 U	250 U	250 U	250 U	250 U	500 U	250 U	500 U	250 U	250 U	250 U
Environmental (4th Qtr. 2021)	10/29/2021			12.2		898			65.3	1000 U	500 U	21 J	500 U	500 U	270 J	1000 U	500 U	62 J	500 U	500 U	500 U	56 J	500 U	1000 U	500 U	500 U	500 U
Environmental (2nd Qtr. 2022)	5/3/2022			12.4		349			28.6	1000 U	500 U	500 U	500 U	500 U	1000 U	1000 U	500 U	110 J	500 U	500 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U
Environmental (4th Qtr. 2022)	10/27/2022			12.4		386			28.9	1000 U	500 U	25 J	500 U	500 U	1000 U	1000 U	500 U	48 J	500 U	500 U	500 U	500 U	1000 U	500 U	500 U	500 U	500 U
Environmental (2nd Qtr. 2023)	5/2/2023			12.6		287			33.1	1000 U	500 U	500 U	500 U	500 U	1000 U	1000 U	500 U	72 J	500 U	500 U	500 U	1000 U	500 U	1000 U	500 U	500 U	500 U
Environmental (4th Qtr. 2023)	10/26/2023			14.3		239			24	44	0.3 J	5 U	5 U	5 U	33	8.5 J	5 U	5 U	5 U	5 U	5 U	13	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/10/2024			12.7		194			27.4	27	5 U	5 U	5 U	5 U	22	7.9 J	5 U	5 U	5 U	5 U	5 U	23	5 U	10 U	5 U	5 U	5 U

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
T-27DB																																		
Baseline Sampling	2/21/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.74	35	655	7.49	-104	2670	1.6	22		37.5	0.01 U	4 U	3.5		28.2	0.101	311	2 U	3.8	5 U
Injection 1 - 60 Day Performance	8/14/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1.1	25	678	7.36	-98	881	0.6	15	0.05 U	49.6	0.01 U	5 U	5 U	10 U	0.102	640	2 U	3.91	5 U	
Injection 1 - 90 Day Performance	9/19/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.85	40	635	7.43	-75	936	1	13	0.05 U	36.6	0.01 U	5 U	5 U	10.6	0.05 U	330	2 U	3.92	5 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/17/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.59	45	570	7.31	-76	3790	0.8	16	0.05 U	46.6	0.01 U	5 U	5 U	29.4	0.0947	638	2 U	3.47	5 U
Injection 2 - 90 Day Performance	11/13/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	0.23 J	1 U	1 U	0.24	35	631	7.44	13	3260	0.6	14	0.05 U	97	0.01 U	5 U	5 U	25.7	0.118	336	2 U	6.77	5 U	
Injection 2 - 120 Day Performance	12/19/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.6	45	667	7.4	-14	4760	0.6	17	0.05 U	26.3	0.01 U	5 U	5.4	40.4	0.0726	317	2 U	3.78	5 U
Injection 3 - 60 Day Performance	1/16/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.57	50	613	7.44	-46	3550	0.8	17	0.05 U	39.9	0.01 U	5 U	5 U	31.5	0.104	329	2 U	3.91	5 U
Injection 3 - 90 Day Performance	2/20/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.74	50	633	7.6	-51	1550	0.2 U	18	0.05 U	48	0.01 U	5 U	5 U	16.4	0.104	450	2 U	3.79	5 U
Injection 3 - 120 Day Performance	3/18/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.58	50	626	7.44	-24	1290	0.6	9.5	0.05 U	34.2	0.01 U	5 U	5 U	13.1	0.106	329	2 U	3.91	6.92
Environmental (2nd Qrt 2008)	5/5/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.7		605	7.21	103	1260		11				5 U	5 U	14.1					
Environmental (3rd Qrt 2008)	8/5/2008	1 U	0.5 U	1.4	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.22		606	7.12	-88	1190		15				5 U	5 U	11.3					
Environmental (4th Qrt 2008)	11/18/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.35		607	7.54	-23	1780		11				5 U	5 U	15.7					
Environmental (1st Qrt 2009)	2/2/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.4		718	7.47	-18	1240		16				5 U	50 U	15					
Environmental (2nd Qtr. 2009)	4/28/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.16		688	7.05	-90	1300		6.2				5 U	5 U	13.6					
Environmental (3rd Qtr. 2009)	7/28/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.39		661	7.33	-125	988		6.3				5 U	5 U	10 U					
Environmental (4th Qtr. 2009)	10/22/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.14		604	7.01	-71	734		16				5 U	50 U	10 U					
Environmental (1st Qrt 2010)	1/21/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.86		546	7.37	-105	837		12				5 U	5 U	10 U					
Environmental (2nd Qtr. 2010)	5/3/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.78		689	7.23	-127	787		12				5 U	50 U	10 U					
Environmental (3rd Qtr. 2010)	7/26/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.82		660	7.05	-115	721		12				5 U	50 U	10 U					
Environmental (4th Qtr. 2010)	11/3/2010						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.89	30	667	7.35	-118	780	0.5	10	0.05 U	46.4	0.05 U	5 U	50 U	10 U	0.099	329	2 U	4.5	7.6
Environmental (1st Qtr. 2011)	1/19/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.91	50	661	6.86	-60	841	U	8.1	0.05 U	61.5	1.9	5 U	50 U	10.3	0.101	330	2 U	5.5	5 U
Environmental (2nd Qtr. 2011)	5/18/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.44	45	716	6.82	-2	803	0.6	13	0.05 U	63.2	1 U	5 U	50 U	10 U	0.1	331	2 U	4.7	5 U
Environmental (3rd Qtr. 2011)	7/27/2011						5 U	5 U	5 U	5 U	5 U	0.26 J	1 U	1 U	1.43	40	611	7.02	-145	570	0.3	12	0.05 U	36.4	1.4	5 U	50 U	12.7	0.05 U	301	2 U	5.3	5 U	
Environmental (4th Qtr. 2011)	10/25/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.67	40	612	6.93	-196	1160	0.8	14	0.05 U	31.9	1.1	5 U	50 U	10 U	0.119	301	2 U	5.3	5 U
Environmental (1st Qtr. 2012)	1/31/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.8	35	630	7.01	-90	713	0.4	12	0.05 U	52.8	3.2	5 U	50 U	10 U	0.1	331	2 U	4.8	5 U
Environmental (2nd Qtr. 2012)	5/7/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	3.45	35	623	7.09	-65	457		15	0.05 U	26.2	1 U	5 U	50 U	10 U	0.097	310	2 U	5.6	5 U
Environmental (3rd Qtr. 2012)	7/20/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.62	50	609	7.27	-73	340	0.4	23	0.05 U	21.1	1 U	5 U	50 U	10 U	0.098	300	2 U	4.9	5 U
Environmental (4th Qtr. 2012)	10/22/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.75	55	651	7.12	-80	310	0.2 U	18	0.05 U	43.8	1 U	5 U	50 U	10 U	0.099	319	2 U	4.7	5.7
Environmental (1st Qtr. 2013)	1/28/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.12	55	717	7.18	-54	882	0.3	14	0.05 U	55	1 U	5 U	50 U	10.8	0.103	324	2 U	4.6	5 U
Environmental (2nd Qtr. 2013)	4/25/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.88	65	752	7.14	-88	534	0.2 U	6	0.05 U	72.6	1 U	5 U	50 U	10 U	0.102	356	2 U	5.9	6
Environmental (4th Qtr. 2013)	10/25/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.03	50	653	7.17	-35	503	0.4	9.4		36.5	0.98 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2014)	5/12/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.8	40	781	7.22	-70	479	0.6	3.7		78.6	0.97 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2014)	10/29/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.47	45	626	7.25	-12	726	0.2 U	16		29.2	1 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2015)	5/13/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.64	55	741	7.23	-67	444	0.2 U	9.5		76.7	0.97 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2015)	10/20/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.79	50	614	7.21	-71	295	0.2 U	18		32.8	0.96 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2016)	4/25/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.49	40	811	6.96	-39	240	0.2 U	12		77.3	0.99 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2016)	11/14/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.61	40	789	7.22	-54	313	0.2 U	13		65.4	1 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2017)	5/30/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.37	55	922	7.17	-56	293 E	0.2 U	12		91.4	0.99 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2017)	10/31/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.32	45	840	7.12	-53	282	0.2 U	12		75.9	0.98 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2018)	4/23/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.48	50	653	7.16	-76	316	0.2	13		56	0.98 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2018)	10/29/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.51	55	717	7.22	-134	238	0.2	13		51.1	0.98 U	5 U	50 U	10 U					
Environmental (2nd Qtr. 2019)	4/29/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.2 U	45	813	7.22	-74	264	0.2 U	13		70	0.97 U	5 U	50 U	0.7					
Environmental (4th Qtr. 2019)	10/28/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.22	50	634	7.03	-51	266	0.2 U	18		36.9	0.01 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2020)	4/25/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.43	35	894	7.15	-55	390	0.4	16		84.3	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2020																																		

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2- BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P- XYLENE (UG/L)	4-METHYL-2- PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE
T-27DB																											
Baseline Sampling	2/21/2007		3.73		8.4	1.08	0.05 U	1 U	9.1		1 U																1 U
Injection 1 - 60 Day Performance	8/14/2007	5 U			12.3	0.218	1 U	0.05 U	3.58	4.5	1.9 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/19/2007	5 U	1 U		13.4	0.2 U	1 U	0.05 U	1 U	4	1.3 J	5 U	5 U	5 U	10 U	0.21 J	5 U	5 U	5 U	5 U	5 U	10 U	0.27 J	10 U	5 U	5 U	0.37 J
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/17/2007	5 U	1.18		15.9	0.219	1.04	0.1 U	1 U	14.6	20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 90 Day Performance	11/13/2007	5 U	1.13		11.5	0.2 U	1.14	0.0652	1 U	15.6	1.1 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 120 Day Performance	12/19/2007	5 U	2.82		5.3	0.342	1 U	0.0722	1 U	10.8	20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 60 Day Performance	1/16/2008	5 U	1.04		6.8	0.334	1.45	0.05 U	1 U	5.9	20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/20/2008	5 U	1.55		3.4	0.2 U	1 U	0.05 U	1 U	8.3	20 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 120 Day Performance	3/18/2008	5.35 U	1.44		7	0.2 U	1 U	0.05 U	1 U	5.6	0.54 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/5/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qrt 2008)	8/5/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/18/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qrt 2009)	2/2/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/28/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2009)	7/28/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/22/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qrt 2010)	1/21/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	5/3/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2010)	7/26/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	11/3/2010	4.7 U			12.7	0.2 U	2	0.05 U		20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2011)	1/19/2011	4.7 U				0.2 U	1.2			20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/18/2011	4.7 U			14.2	0.2 U	1.2		6.1	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2011)	7/27/2011	4.7 U			18.6	0.2 U	1.4		6.8	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/25/2011	4.7 U			12.3	0.24	1.1		4.4	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2012)	1/31/2012	4.7 U			10.3	0.2 U	1 U		1.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	5/7/2012	4.7 U			15.1	0.2 U	1 U		2.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2012)	7/20/2012	4.7 U			14.7	0.2 U	1 U		2.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/22/2012	4.7 U			12.5	0.25	1.1		1.5	1.9 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2013)	1/28/2013	4.7 U			6.2	0.2 U	1 U		3.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/25/2013	4.8 U			11.2	0.2 U	1.1		2.6	1.8 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/25/2013				8.3		1			10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/12/2014				13.9		1.3			10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/29/2014				11.8	1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/13/2015				11.5		1			1.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/20/2015				12.9	1 U			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/25/2016				8.9		3		1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/14/2016				12.3	3.7			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.35 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/30/2017				12.5	3.6			2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/31/2017				11.5	1 U			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/23/2018				12.6	1.9			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/29/2018				11.4	1.3			0.6	8.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/29/2019				11.8	1.2			1.2	4.3 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/28/2019				12.2	1 U			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/25/2020				11.4	1.2			1.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	11/3/2020				11.1	1 U			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/26/2021				11.7	1			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/28/2021				11.7	1.3			4.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	5/3/2022				12.9	1 U			2.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/26/2022				12.9	1 U			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/28/2023				12.7	1 U			0.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/27/2023				13.5	1 U			1.4	10 U	5 U	5 U	5 U	5 U	10 U	0.61 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/15/2024				12.7	1 U			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-27SB																											
Baseline Sampling	2/21/2007		5.88		6.9	3.21	0.103	1 U	21.7		1 U															1 U	1 U
Injection 1 - 60 Day Performance	8/15/2007	5 U	1.98		18.8	0.285	2.06	0.0511	1 U	156	15 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/19/2007	5 U	2.54		17.1	0.306	2	0.05 U	1 U	15.2	2.4 J	5 U	5 U	5 U	10 U	0.23 J	5 U	5 U	5 U	5 U	5 U	0.22 J	10 U	0.75 J	10 U	5 U	1.7 J
Injection 1 - 120 Day / Injection 2																											

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
Well	Date																																	
T-31DB																																		
Baseline Sampling	1/30/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.27	30	1669	7.43	98	100 U	0.2 U	2 U			909	0.01 U	4 U	3 U	10 U	0.05 U	271	2 U	63.7	5 U
Environmental (4th Qrt 2007)	12/5/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	6.79		1775	7.41	129	100 U		2 U				5 U	5 U						
Environmental (2nd Qrt 2008)	4/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.26		2538	7.05	172	469		5.1			5 U	5 U							
Environmental (4th Qrt 2008)	11/13/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.84		1570	7.04	-7	855		6.9			5 U	5 U							
Environmental (2nd Qtr. 2009)	4/28/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.68		2530	6.81	21	242		6.2			5 U	5 U							
Environmental (4th Qtr. 2009)	10/23/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	3.74		2431	7.2	40	144		2 U			5 U	50 U							
Environmental (2nd Qtr. 2010)	4/28/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	5.16		2570	7.16	-40	558		5.8			5 U	50 U							
Environmental (4th Qtr. 2010)	10/28/2010						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	3.08		2477	7.1	7	869		5.3			5 U	50 U							
Environmental (2nd Qtr. 2011)	5/13/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.64		2600	6.67	123	862		8.2			5 U	50 U							
Environmental (4th Qtr. 2011)	10/19/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	4.47		3180	6.67	80	100 U		2 U			5 U	50 U							
Environmental (2nd Qtr. 2012)	4/30/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.9		2470	6.62	-37	228		4.9			5 U	50 U							
Environmental (4th Qtr. 2012)	10/24/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.17		2397	6.99	-6	100 U		1.9			5 U	50 U							
Environmental (2nd Qtr. 2013)	4/22/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	6.16		2380	7.02	0	408		3.9			5 U	50 U							
Environmental (4th Qtr. 2013)	10/21/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	4.21	65	2361	7.09	-137	2400	1	1.9		1190	1	5 U	50 U						
Environmental (2nd Qtr. 2014)	5/1/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.32	35	2241	7.01	-75	1990	1.8	4.1		1100	0.97 U	5 U	50 U						
Environmental (4th Qtr. 2014)	10/22/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	6.71	55	2237	7.23	-121	1780	1.6	5.1		1070	1 U	5 U	50 U						
Environmental (2nd Qtr. 2015)	5/12/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	4.47	50	1945	7	-33	1140	1.1	4.4		1090	0.95 U	5 U	50 U						
Environmental (4th Qtr. 2015)	10/15/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.99	50	2246	6.98	-229	424	0.2 U	7.4		1100	3.55	5 U	50 U						
Environmental (2nd Qtr. 2016)	4/27/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	6.03	40	2166	7	-104	1260	0.8	7.8		1080	3.2	5 U	50 U						
Environmental (4th Qtr. 2016)	11/10/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	5.84	40	2210	7.03	-65	1170	0.9	8.3		1510	1 U	5 U	50 U						
Environmental (2nd Qtr. 2017)	5/11/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.96	45	2260	7.06	-88	1730	0.2 U	9.4		991	0.98 U	5 U	50 U						
Environmental (4th Qtr. 2017)	11/2/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	8.6	40	2229	7.02	-90	1140	0.5	6.8		1050	0.98 U	5 U	50 U						
Environmental (2nd Qtr. 2018)	4/26/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	8.93	45	2258	7.06	-52	1380	0.8	11		973	0.99 U	5 U	50 U						
Environmental (4th Qtr. 2018)	10/24/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	9.78	45	2211	7.08	-131	920	0.2 U	9.8		981	0.98 U	5 U	50 U						
Environmental (2nd Qtr. 2019)	5/1/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	5.39	45	2235	7.04	-64	1100	0.9	11		1060	0.97 U	5 U	50 U						
Environmental (4th Qtr. 2019)	10/25/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	7.47	60	2273	7	-13	874	0.6	7.6		1090	0.01 U	5 U	50 U						
Environmental (2nd Qtr. 2020)	4/22/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.55	30	2165	7.06	-61	100 U	0.2 U	1.1 U		989	0.05 U	5 U	50 U						
Environmental (4th Qtr. 2020)	10/27/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.94	60	2217	6.92	-15	616	0.5	11		1080	0.05 U	5 U	50 U						
Environmental (2nd Qtr. 2021)	4/23/2021						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.23	60	1218	6.99	-53	100 U	0.5	3		1100	0.05 U	5 U	50 U						
Environmental (4th Qtr. 2021)	10/28/2021						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.81	45	2175	7.08	99	100 U	0.2 U	1.1 U		950	0.05 U	5 U	50 U						
Environmental (2nd Qtr. 2022)	4/28/2022						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.89	60	2160	6.97	24	100 U	0.2 U	1.1 U		899	0.05 U	5 U	50 U						
Environmental (4th Qtr. 2022)	10/26/2022						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	1.3	50	2161	6.73	-12	640	0.2 U	1.5 U		957	0.05 U	5 U	50 U						
Environmental (2nd Qtr. 2023)	4/27/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	0.68	55	2185	7.01	-103	1100	1	4.8		963	0.05 U	5 U	50 U						
Environmental (4th Qtr. 2023)	10/24/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		50	2201	7.06	-75	1060	1.1	9.8		932	0.9	5 U	50 U						
Environmental (2nd Qtr. 2024)	4/11/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		60	2175	6.99	-124	870	0.9	12		984	0.05 U	5 U	50 U						
T-31SB																																		
Baseline Sampling	1/30/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U	0.83	35	963	7.36	-58	1440	0.8	50			75.4	0.01 U	4 U	17.1	27.2	0.0999	412	2 U	66.5	5 U
Environmental (4th Qrt 2007)	12/5/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	0.35 J	1.1 J	5 U	5 U	5 U	5 U	1 U	1 U	6.7		950	7.5	37	737		50				5 U	5 U						
Environmental (2nd Qrt 2008)	4/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	0.28 J	0.63 J	5 U	5 U	5 U	5 U	1 U	1 U	4.52		903	7.33	190	624		33			5 U	5 U							
Environmental (4th Qrt 2008)	11/13/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	0.22 J	0.79 J	5 U	5 U	5 U	5 U	1 U	1 U	6.46		841	7.33	-24	803		28			5 U	5 U							
Environmental (2nd Qtr. 2009)	4/28/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.84 J	5 U	5 U	5 U	5 U	1 U	1 U	5.91		787	7.15	-1	814		20			5 U	5 U							
Environmental (4th Qtr. 2009)	10/23/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.53 J	5 U	5 U	5 U	5 U	1 U	1 U	8.2		876	7.45	-33	1020		25			5 U	50 U							
Environmental (2nd Qtr. 2010)	4/28/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.74 J	5 U	5 U	5 U	5 U	1 U	1 U	0.61		932	7.31	-81	838		42			5 U	50 U							
Environmental (4th Qtr. 2010)	10/28/2010						5 U	5 U	0.69 J	5 U	5 U	5 U	5 U	1 U	1 U	1.38		941	7.15	-31	749		32			5 U	50 U							
Environmental (2nd Qtr. 2011)	5/13/2011						5 U	5 U	1.3 J	5 U	5 U	5 U	5 U	1 U	1 U	0.42		978	7.08	119	874		27			5 U	50 U							
Environmental (4th Qtr. 2011)	10/19/2011						5 U	0.29 J	0.76 J	5 U	5 U	5 U	5 U	1 U	1 U	0.75		949	6.76	-82	797		43			5 U	50 U							
Environmental (2nd Qtr. 2012)	4/30/2012						5 U	0.23 J	0.76 J	5 U	5 U	5 U	5 U	1 U	1 U	0.87		931	7.03	-45	616		44			5 U	50 U							
Environmental (4th Qtr. 2012)	10/24/2012						5 U	5 U	0.59 J	5 U	5 U	5 U	5 U	1 U	1 U	0.68																		

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2- BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P- XYLENE (UG/L)	4-METHYL-2- PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-31DB																											
Baseline Sampling	1/30/2007		2.8	6.7		3.49	0.05 U	1 U	1.5		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/5/2007									6.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	4/24/2008									0.76 JB	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/13/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/28/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/23/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/28/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/28/2010					2.1				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/13/2011					1.4				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/19/2011					1.2				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/30/2012					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/22/2013					1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/21/2013			12.8		1.4				10 U	5 U	5 U	5 U	5 U	10 U	0.26 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.35 J
Environmental (2nd Qtr. 2014)	5/1/2014			11.3		4.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/22/2014			11.4		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.52 J	10 U	5 U	0.25 J	0.98 J
Environmental (2nd Qtr. 2015)	5/12/2015			12.5		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			11.4		1.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			9.1		1.3			1.3	2.1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/10/2016			11.9		3.7				2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/11/2017			12.4		1.1			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	11/2/2017			11.6		1.1			3.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/26/2018			10.5		2.9			1.2	2.1 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/24/2018			11.1		2.1			2.2	12	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	0.46 J	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/1/2019			12.5		1.4			3.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/25/2019			11.1		1.2			2.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/22/2020			6.8		1.5			3.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/27/2020			11.3		1.4			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/23/2021			11.5		1.2			1.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/28/2021			14.2		1.3			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/28/2022			10.1		1 U			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/26/2022			12		1 U			1.3	10 U	5 U	5 U	5 U	5 U	10 U	0.68 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/27/2023			11.5		1.2			2.3	10 U	5 U	5 U	5 U	5 U	10 U	0.52 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/24/2023			12.2		1 U			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/11/2024			12.3		1 U			1.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-31SB																											
Baseline Sampling	1/30/2007		3.82	5.6		1.67	0.05 U	1 U	7.7		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/5/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.33 J
Environmental (2nd Qrt 2008)	4/24/2008									0.72 JB	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/13/2008									20 U	5 U	5 U	5 U	0.2 JB	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/28/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/23/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.9 J
Environmental (2nd Qtr. 2010)	4/28/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/28/2010					2 U				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/13/2011					1.5				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/19/2011					1.2				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/30/2012					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/22/2013					1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/21/2013			12.6		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/1/2014			11.2		1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/22/2014			11.5		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/12/2015			12.8		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			11.2		1.3			1.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			9.2		2.6			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/10/2016			11.9		5.3			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/11/2017			11.7		1			1.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	11/2/2017			11.7		1.5			1.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Q																											

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																			
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMN (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)		
Well	Date																																		
T-32DB Baseline Sampling	2/9/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.1	4.84	25	3020	7.23	-56	1640	0.6	340 D		1690	0.06	4 U	3 U	1340	0.296	291	2 U	126	5 U		
T-32DBR Environmental (4th Qrt 2007)	12/7/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 J	7.6	9.75		1392	10.17	19	174		290 D				5 U	5 U	10 U							
Environmental (2nd Qrt 2008)	5/1/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.41 J	9	2.03		1287	9.41	76	308		360 D				5 U	5 U	10 U							
Environmental (2nd Qtr. 2009)	4/30/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	14	1.4		2120	10.97	-54	178		630				5 U	5 U	10 U							
Environmental (4th Qtr. 2009)	10/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	18	4.29		3387	11.87	-185	100 U		810				5 U	50 U	10 U							
Environmental (2nd Qtr. 2010)	4/29/2010	1 U	0.5 U	1 U	2 U	1 U	13 U	13 U	13 U	13 U	13 U	13 U	10 U	23	1.01		4340	12.39	-222	100 U		950 D				5 U	50 U	10 U							
Environmental (4th Qtr. 2010)	10/29/2010						10 U	10 U	10 U	10 U	10 U	10 U	1 U	1.2	5.69		4055	11.92	-250	100 U		51				5 U	50 U	10 U							
Environmental (2nd Qtr. 2011)	5/17/2011						10 U	10 U	10 U	10 U	10 U	10 U	10 U	2.1	25	5.67		5430	11.72	-7	100 U		950 D				5 U	50 U	10 U						
Environmental (4th Qtr. 2011)	10/20/2011						10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	32	1.42		6190	12.2	-217	100 U		1200 D				5 U	50 U	10 U						
Environmental (2nd Qtr. 2012)	4/30/2012						5 U	5 U	5 U	5 U	5 U	0.3 J	20 U	56	0.65		6980	11.9	-279	100 U		2500 D					5 U	50 U	10 U						
Environmental (4th Qtr. 2012)	10/24/2012						10 U	10 U	10 U	10 U	10 U	10 U	20 U	41	1.13		7085	12.2	-211	100 U		1600					5 U	50 U	10 U						
Environmental (2nd Qtr. 2013)	4/25/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	3.2	35	1.54		5460	12.03	-204	100 U		1100 D					5 U	50 U	10 U					
Environmental (4th Qtr. 2013)	10/23/2013						5 U	0.23 J	5 U	5 U	5 U	0.37 J	20 U	42	1.24		6348	12.1	-255	100 U		1700		249	5.9	5 U	50 U	10 U							
Environmental (2nd Qtr. 2014)	5/14/2014						5 U	5 U	5 U	5 U	5 U	5 U	10 U	16	1.03	20	1441	7.31	-55	100 U	0.4	690		135	2.39	5 U	50 U	10 U							
Environmental (4th Qtr. 2014)	10/24/2014						5 U	5 U	5 U	5 U	5 U	5 U	10 U	32	2.78	5 U	3091	9.82	-258	100 U	0.2 U	1200 D		169	3.6	5 U	50 U	10 U							
Environmental (2nd Qtr. 2015)	5/13/2015						5 U	5 U	5 U	5 U	5 U	5 U	10 U	26	6.71	45	3814	11.6	-217	100 U	0.2 U	1000 D		163	0.96 U	5 U	50 U	10 U							
Environmental (4th Qtr. 2015)	10/15/2015						5 U	5 U	5 U	5 U	5 U	5 U	10 U	15	5.63	5 U	2256	11.6	-224	100 U	0.2 U	700		127	1.55	5 U	50 U	10 U							
Environmental (2nd Qtr. 2016)	4/27/2016						5 U	5 U	5 U	5 U	5 U	5 U	20 U	32	3.74	5 U	2959	11.46	-214	100 U	0.2 U	1400		178	3.5	5 U	50 U	10 U							
Environmental (4th Qtr. 2016)	11/15/2016						5 U	5 U	5 U	5 U	5 U	5 U	20 U	22	3.72	5 U	2022	10.84	-197	100 U	0.2 U	1000		136	2.4	5 U	50 U	10 U							
Environmental (2nd Qtr. 2017)	5/22/2017						5 U	5 U	5 U	5 U	5 U	5 U	20 U	25	4.57	60	2927	10.12	-207	100 U	0.2 U	1200		165	3.9	5 U	50 U	10 U							
Environmental (4th Qtr. 2017)	10/30/2017						5 U	5 U	5 U	5 U	5 U	5 U	20 U	23	3.29	50	2873	10.05	-223	100 U	0.2 U	1100		196	3.33	5 U	50 U	10 U							
Environmental (2nd Qtr. 2018)	4/26/2018						5 U	5 U	5 U	5 U	5 U	5 U	20 U	24	3.6	20	2700	9.91	-276	100 U	0.2 U	990		213	2.67	5 U	50 U	10 U							
Environmental (4th Qtr. 2018)	10/29/2018						5 U	5 U	5 U	5 U	5 U	5 U	1 U	20	2.88	60	2099	10.05	-257	100 U	0.2 U	850 D		148	3.31	5 U	50 U	10 U							
Environmental (2nd Qtr. 2019)	5/2/2019						5 U	5 U	5 U	5 U	5 U	5 U	10 U	20	3.2	5 U	2224	10.03	-214	100 U	0.2 U	870		153	2.5	5 U	50 U	0.2 U							
Environmental (4th Qtr. 2019)	10/30/2019						5 U	5 U	5 U	5 U	5 U	5 U	10 U	16	2.37	5 U	2256	9.98	-230	100 U	0.2 U	880		142	2.8	5 U	50 U	0.2 U							
Environmental (2nd Qtr. 2020)	4/29/2020						5 U	5 U	5 U	5 U	5 U	5 U	10 U	16	3.3	5 U	2300	9.82	-220	100 U	0.2 U	810		127	0.4	5 U	50 U	0.2							
Environmental (4th Qtr. 2020)	10/29/2020						5 U	5 U	5 U	5 U	5 U	5 U	10 U	36	3.52	5 U	7830	9.49	-243	100 U	0.2 U	1700 D		255	1.4	5 U	50 U	0.3							
Environmental (2nd Qtr. 2021)	4/28/2021						5 U	5 U	5 U	5 U	5 U	5 U	25 U	37	2.3	5 U	6235	9.38	-275	100 U	0.2 U	1800		270	2.8	5 U	50 U	0.8							
Environmental (4th Qtr. 2021)	10/22/2021						5 U	5 U	5 U	5 U	5 U	5 U	1 U	45	2.6	15	9516	9.06	-245	1370	0.2 U	1400 E		868	8	5 U	50 U	0.2 U							
Environmental (2nd Qtr. 2022)	4/21/2022						5 U	5 U	5 U	5 U	5 U	5 U	25 U	26 U	3.55	50	5966	7.95	-217	649	0.2 U	1200		1090	0.05 U	5 U	50 U	0.2 U							
Environmental (4th Qtr. 2023)	10/27/2023						5 U	5 U	5 U	5 U	5 U	5 U	25 U	75		65	32880	7.46	-89	3880	2	2600 D		2200	0.05 U	5 U	50 U	22							
Environmental (2nd Qtr. 2024)	no sample																																		
T-32SB Baseline Sampling	2/9/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.81	20	682	7.96	-30	306	0.2	2 U		70.2	0.01 U	4 U	3 U	16.6	0.167	338	2 U	2 U	5 U		
T-32SBR Environmental (4th Qrt 2007)	12/7/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.37 J	0.35		1286	7.46	75	476		22				5 U	5 U	110							
Environmental (2nd Qrt 2008)	5/1/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.65 J	0.42		1671	8.22	105	11200		26				5 U	27.8	269							
Environmental (2nd Qtr. 2009)	4/30/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.45		1080	7.46	-75	8190		21				5 U	11.2	175							
Environmental (4th Qtr. 2009)	10/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.26		1355	7.11	-56	5200		18				5 U	50 U	135							
Environmental (2nd Qtr. 2010)	4/29/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.79		1399	7.31	-10	2890		14				5 U	50 U	87.7							
Environmental (4th Qtr. 2010)	10/29/2010						5 U	0.85 J	5 U	5 U	5 U	5 U	1 U	1 U	2.7		1403	7.1	-19	4460		11				5 U	50 U	105							
Environmental (2nd Qtr. 2011)	5/17/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.5		1398	6.55	117	4760		18				5 U	50 U	109							
Environmental (4th Qtr. 2011)	10/20/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.46		1457	7.07	-68	4380		18				5 U	50 U	104							
Environmental (2nd Qtr. 2012)	4/30/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.62		1472	6.67	-26	2210		15				5 U	50 U	67.4							
Environmental (4th Qtr. 2012)	10/24/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.08		1390	7.18	-60	1440		13				5 U	50 U	39.5							
Environmental (2nd Qtr. 2013)	4/25/2013						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.95		1435	7.16	-24	2240		12				5 U	50 U	63.4							
Environmental (4th Qtr. 2013)	10/23/2013						5 U	0.26 J	5 U	5 U	5 U	5 U	1 U	1 U	2.11	35	1388	7.35	-18	1470	0.4	9.9		487	0.97 U	5 U	50 U	48							
Environmental (2nd Qtr. 2014)	5/14/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.57	5 U	2692	9.95	-191	823	0.2 U	9.7		522	0.95 U	5 U	50 U	41.3							
Environmental (4th Qtr. 2014)	10/24/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.61	60	1372	7.19	-48	1650	0.2 U	11		449	1 U	5 U	50 U	41.6							
Environmental (2nd Qtr. 2																																			

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-32DB Baseline Sampling	2/9/2007		3.05	7.8		1.34	0.062	1 U	17.6		1 U														1 U		1 U
T-32DBR																											
Environmental (4th Qrt 2007)	12/7/2007									100	0.44 J	5 U	5 U	5 U	10 U	2.4 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/1/2008									120	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.34 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/30/2009									180	5 U	5 U	5 U	5 U	10 U	2.9 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/27/2009									330 D	5 U	5 U	5 U	5 U	2.9 J	7.3 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/29/2010									330	13 U	13 U	13 U	13 U	5 J	3.9 J	13 U	13 U	13 U	13 U	13 U	25 U	13 U	25 U	13 U	13 U	13 U
Environmental (4th Qtr. 2010)	10/29/2010					1.4				250	10 U	10 U	10 U	10 U	3.7 J	4.1 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qtr. 2011)	5/17/2011					1.2				260	10 U	10 U	10 U	10 U	4.4 J	7.2 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (4th Qtr. 2011)	10/20/2011					1.2				230	10 U	10 U	10 U	10 U	3.9 J	6.6 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qtr. 2012)	4/30/2012					1.2				260 D	5 U	5 U	5 U	5 U	1.9 J	7.2 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1.1				250	10 U	10 U	10 U	10 U	2.8 J	6 J	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (2nd Qtr. 2013)	4/25/2013					1 U				73	5 U	5 U	5 U	5 U	1.5 J	3.3 J	5 U	5 U	0.27 BJ	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/23/2013			11.6		1 U				84	5 U	5 U	5 U	5 U	10 U	1.7 J	5 U	5 U	0.29 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/14/2014			12.3		1 U				29	5 U	5 U	5 U	5 U	10 U	1 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/24/2014			11.8		1.1				28	5 U	5 U	5 U	5 U	10 U	1.4 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/13/2015			11.1		1 U				25	5 U	5 U	5 U	5 U	10 U	0.54 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			12.9		1 U			2.1	15	5 U	5 U	5 U	5 U	10 U	0.27 J	5 U	5 U	0.25 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			9		1 U			3.6	17	5 U	5 U	5 U	5 U	10 U	0.37 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/15/2016			11.6		1 U			1.9	17	5 U	5 U	5 U	5 U	10 U	2.1 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/22/2017			12.3		3.3			0.9	15	5 U	5 U	5 U	5 U	10 U	0.45 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/30/2017			11.9		1 U			1.3	21	5 U	5 U	5 U	5 U	10 U	0.41 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/26/2018			11.4		1.5			2.4	19	5 U	5 U	5 U	5 U	10 U	12	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/29/2018			11.8		1 U			1.7	21	5 U	5 U	5 U	5 U	10 U	6.6 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/2/2019			11.3		1 U			4.5	16	5 U	5 U	5 U	5 U	10 U	2.3 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/30/2019			12.3		1 U			1.4	12 B	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/29/2020			14		1 U			4.9	11	5 U	5 U	5 U	5 U	10 U	1.5 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/29/2020			11.7		1 U			6.8	25	5 U	5 U	5 U	5 U	10 U	2.4 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/28/2021			15.2		1 U			9	21	5 U	5 U	5 U	5 U	10 U	2.8 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/22/2021			11.8		2.4			19.6	26	5 U	5 U	5 U	5 U	10 U	17	5 U	5 U	5 U	5 U	5 U	0.23 J	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/21/2022			11.4		1.1			3.7	6 J	5 U	5 U	5 U	5 U	10 U	2.1 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	1.3 BJ
Environmental (4th Qtr. 2023)	10/27/2023			12.9		11.8			12.9	12	1.1 J	5 U	5 U	5 U	5 U	0.82 J	1.2 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2024)	no sample																										
T-32SB Baseline Sampling	2/9/2007		3.72	6.7		1 U	0.05 U	1 U	5.6		1 U														1 U		1 U
T-32SBR																											
Environmental (4th Qrt 2007)	12/7/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/1/2008									1.9 J	5 U	5 U	5 U	5 U	10 U	0.32 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/30/2009									1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/27/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/29/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/29/2010					1.4				2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/17/2011					1.3				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/20/2011					1.1				6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/30/2012					1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/25/2013					1 U				1.3 J	5 U	5 U	5 U	0.31 J	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/23/2013			10.9		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/14/2014			12.3		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/24/2014			11.5		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/13/2015			11.3		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			12.5		1 U			9.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			9.3		3.2			10.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/15/2016			11.8		2.4			12.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/22/2017			12.3		7.1			7.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/30/2017			12.1		1 U			5.1	1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/26/2018			11.4		5.2			7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/29/2018			11.7		1.1			5.3	7.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/2/2019			10.8		1.1			9.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/30/2019			12.3		1.1			6.8	2.4 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U</			

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
Well	Date																																	
T-34SB																																		
Baseline Sampling	2/7/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.24		10	509	8.35	-93	2150	0.4	5.4		29.6	0.01 U	4 U	3 U	24.9	0.0821	227	2 U	3.19	5 U
Environmental (4th Qrt 2007)	12/6/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.3 J	0.64		610	8.01	-110	1490		16			5 U	5 U							
Environmental (2nd Qrt 2008)	5/1/2008	1 U	0.5 U	1.2	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.44		636	7.93	71	1140		28			5 U	5 U							
Environmental (4th Qrt 2008)	11/14/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.8		640	7.91	-51	286		21			5 U	5 U							
Environmental (2nd Qtr. 2009)	4/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.88		733	7.67	-112	296		14			5 U	5 U							
Environmental (4th Qtr. 2009)	10/26/2009	1 U	0.5 U	1.3	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.92		672	7.81	-130	286		46			5 U	50 U							
Environmental (2nd Qtr. 2010)	4/28/2010	1 U	0.5 U	1.3	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.2		738	7.32	-196	264		62			5 U	50 U							
Environmental (4th Qtr. 2010)	10/27/2010						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.4		685	7.75	-142	347	200 D				5 U	50 U							
Environmental (2nd Qtr. 2011)	5/12/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.32		692	7.42	-32	215		65			5 U	50 U							
Environmental (4th Qtr. 2011)	10/18/2011						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.57		736	7.36	-160	277	120 D				5 U	50 U							
Environmental (2nd Qtr. 2012)	4/27/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.73		704	7.46	-140	195	220 D				5 U	50 U							
Environmental (4th Qtr. 2012)	10/25/2012						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.5 U	2.5 U	0.56		677	7.71	-171	316		150			5 U	50 U							
Environmental (2nd Qtr. 2013)	4/22/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.5 U	2.5 U	1.26		677	7.71	-169	366		160			5 U	50 U							
Environmental (4th Qtr. 2013)	10/21/2013						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.25	35	671	7.77	-142	210	0.2 U	21	53.9	1 U	5 U	50 U							
Environmental (2nd Qtr. 2014)	4/30/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.89	25	680	7.52	-167	326	0.2 U	79	52.9	1 U	5 U	50 U							
Environmental (4th Qtr. 2014)	10/22/2014						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.54	35	673	7.7	-167	249	0.2 U	95	51.3	0.98 U	5 U	50 U							
Environmental (2nd Qtr. 2015)	5/11/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.41	40	650	7.62	-177	169	0.2 U	62	52.7	0.97 U	5 U	50 U							
Environmental (4th Qtr. 2015)	10/14/2015						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.23	35	660	7.71	-126	156	0.2 U	56	57.7	0.96 U	5 U	50 U							
Environmental (2nd Qtr. 2016)	4/26/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.22	30	688	7.68	-119	191	0.2 U	32	57.7	1 U	5 U	50 U							
Environmental (4th Qtr. 2016)	11/9/2016						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.63	40	676	7.75	-106	311	0.2	43	60.3	1 U	5 U	50 U							
Environmental (2nd Qtr. 2017)	5/9/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.27	50	670	7.72	-147	289	0.2 U	64	58.3	0.97 U	5 U	50 U							
Environmental (4th Qtr. 2017)	10/24/2017						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.34	40	653	7.66	-181	294	0.2	63	58.3	0.99 U	5 U	50 U							
Environmental (2nd Qtr. 2018)	4/25/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.06	30	640	7.59	-127	262	0.2 U	69	54.8	0.99 U	5 U	50 U							
Environmental (4th Qtr. 2018)	10/23/2018						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.87	45	632	7.54	-140	253	0.2 U	63	55.1	0.97 U	5 U	50 U							
Environmental (2nd Qtr. 2019)	4/24/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.13	40	655	7.65	-113	285	0.2 U	180 D	60.6	0.99 U	5 U	50 U							
Environmental (4th Qtr. 2019)	10/24/2019						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.19	25	631	7.58	-82	245	0.2 U	19	58.8	0.01 U	5 U	50 U							
Environmental (2nd Qtr. 2020)	4/23/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.43	25	728	7.66	-124	862	0.2 U	970 D	68.8	0.05 U	5 U	50 U							
Environmental (4th Qtr. 2020)	10/28/2020						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U	1.25	40	708	7.57	-120	345	0.2 U	350	65.4	0.05 U	5 U	50 U							
Environmental (2nd Qtr. 2021)	4/22/2021						5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.21	35	670	7.51	-227	291	0.2 U	71	62.6	0.05 U	5 U	50 U							
Environmental (4th Qtr. 2021)	10/29/2021						5 U	5 U	5 U	5 U	5 U	5 U	5 U		1 U	0.39		738	7.38	-133	614		600 D	63.6	0.99 U	5 U	50 U							
Environmental (2nd Qtr. 2022)	4/26/2022						5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	0.34	25	731	7.21	-93	466	0.2 U	420	71.8	0.05 U	5 U	50 U							
Environmental (4th Qtr. 2022)	10/28/2022						5 U	5 U	5 U	5 U	5 U	5 U	5 U	12 U	16.5 U	1.42	25	685	7.33	-101	410	0.5	91.8	68.7	0.05 U	5 U	50 U							
Environmental (2nd Qtr. 2023)	5/2/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	1.01	30	743	7.55	-118	450	0.2 U	37.3	74.5	0.05 U	5 U	50 U							
Environmental (4th Qtr. 2023)	10/31/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		20	673	7.49	-94	500	0.5	20	69.4	0.05 U	5 U	50 U							
Environmental (2nd Qtr. 2024)	4/9/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		30	755	7.39	-106	570	0.7	45	73.9	0.05 U	5 U	50 U							
T-35DB																																		
Baseline Sampling	1/17/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.59	35	604	7.41	23	577	0.2	4.9	21.5	0.01 U	4 U	3 U	10 U	0.0598	290	2 U	2 U	5 U	
Injection 1 - 60 Day Performance	8/15/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.6	40	570	7.44	-68	756	0.4	5.4	0.05 U	20.1	0.01 U	5 U	5 U	11.7	0.0555	286	2 U	2.67	5.52
Injection 1 - 90 Day Performance	9/18/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.71	40	548	7.56	-13	345	0.2	6.5	0.05 U	21.9	0.01 U	5 U	5 U	10 U	0.0576	286	2 U	2.87	5 U
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/16/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.52	50	505	7.35	-26	210	0.2 U	6.2	0.05 U	23.6	0.01 U	5 U	5 U	10 U	0.06	278	2 U	2.07	5 U
Injection 2 - 90 Day Performance	11/21/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.81	20	622	6.89	47	430	0.6	5.4	0.05 U	27.7	0.01 U	5 U	5 U	12.9	0.0715	288	2 U	2.68	98.6
Injection 2 - 120 Day Performance	12/19/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.48	45	590	7.43	-29	380	0.4	7.4	0.05 U	21.3	0.01 U	5 U	5 U	10 U	0.064	271	2 U	2.12	5 U
Injection 3 - 60 Day Performance	1/17/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.56	25	496	7.48	-8	358	0.4	5.5	0.05 U	24.1	0.01 U	5 U	5 U	10 U	0.0518	279	2 U	38.7	5 U
Injection 3 - 90 Day Performance	2/15/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.36	35	540	7.57	-15	279	0.4	5.4	0.05 U	24	0.01 U	5 U	5 U	10 U	0.0515	288	2 U	2.85	5 U
Injection 3 - 120 Day Performance	3/18/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.44	35	532	7.48	-16	259	0.2	5.5	0.05 U	25.6	0.01 U	5 U	5 U	10 U	0.0639	289	2 U	2.54	10.1
Environmental (2nd Qrt 2008)	4/30/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.4		534	7.23															

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-34SB																											
Baseline Sampling	2/7/2007		3.54	4.6		2.26	0.087	1 U	7.5		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/6/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/1/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/14/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/27/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/26/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/28/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/27/2010					5.6				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/12/2011					1.8				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/18/2011					2.3				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/27/2012					3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/25/2012					2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/22/2013					2.9				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/21/2013			11.4		1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/30/2014			10.4		1.9				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/22/2014			11.3		1.9				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/11/2015			13.9		1.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/14/2015			11.3		1.5			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/26/2016			7.9		4.1			7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/9/2016			11		3.5			1.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/9/2017			11.3		1			0.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/24/2017			11.9		1 U			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/25/2018			11.2		4.7			3.1	1.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/23/2018			11.8		1.3			0.7	5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/24/2019			10.8		1.5			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.35 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/24/2019			11.4		1 U			0.3	2.2 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/23/2020			7.8		2.9			12.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/28/2020			11.2		1.1			1.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/22/2021			9.8		1 U			0.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/29/2021			12.5		1 U			7.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/26/2022			11.5		1 U			1	10 U	5 U	5 U	5 U	5 U	10 U	0.47 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/28/2022			11.5		1 U			3.9	10 U	5 U	5 U	5 U	5 U	10 U	0.58 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	5/2/2023			10.7		1 U			3.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/31/2023			11.2		15.9			2.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/9/2024			12		1 U			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-35DB																											
Baseline Sampling	1/17/2007		2.43	8.1		1.28	0.05 U	1 U	5.89		1 U														1 U		1 U
Injection 1 - 60 Day Performance	8/15/2007	5 U	1 U	12.4	0.2 U	1 U	0.05 U	1 U	15.4	1.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.31 J
Injection 1 - 90 Day Performance	9/18/2007	5 U	1 U	14.2	0.2 U	1 U	0.05 U	1 U	1.6	0.61 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.27 J	10 U	5 U	5 U	0.23 J
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/16/2007	5 U	1.19	12.4	0.2 U	1.2	0.1 U	1 U	0.63	1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 90 Day Performance	11/21/2007	5 U	1.35	10.8	0.208	1.16	0.05 U	1 U	1.9	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 120 Day Performance	12/19/2007	5 U	1.26	8	0.2 U	1.18	0.1 U	1 U	2.7	20 U	5 U	5 U	5 U	5 U	10 U	1.4 JB	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 60 Day Performance	1/17/2008	5 U	2.68	6.2	0.4 U	1.37	0.05 U	1 U	1.9	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/15/2008	5 U	4.2	7.2	0.2 U	2.1	0.05 U	1 U	0.5	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 120 Day Performance	3/18/2008	5 U	2.88	8.6	0.65	1.06	0.05 U	1 U	1	0.61 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	4/30/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qrt 2008)	8/5/2008									1.1 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/17/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qrt 2009)	1/29/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/23/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2009)	7/22/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/22/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qrt 2010)	1/20/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/27/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2010)	7/26/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	11/2/2010	4.7 U		11.2	0.2 U	1.6				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2011)	1/25/2011	4.8 U			0.2 U	1.8				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/17/2011	4.6 U		10.8	0.																						

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
T-36DB																																		
Baseline Sampling	1/17/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	3.15	35	2850	7.36	77	418	0.6	7			753	0.01 U	4 U	3 U	12.3	0.219	282	2 U	143	5 U
Environmental (4th Qrt 2007)	12/7/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.97 J	5 U	5 U	5 U	1 U	1 U	5.71		1724	7.32	88	341		6.8				5 U	5 U	15.8						
Environmental (2nd Qrt 2008)	4/25/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.84 J	5 U	5 U	5 U	1 U	1 U	2.08		2168	6.99	158	527		6.5				5 U	5 U	13.4						
Environmental (4th Qrt 2008)	11/13/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.3 J	5 U	5 U	5 U	1 U	1 U	7.07		1390	7.2	-15	319		5.2				5 U	5 U	11.3						
Environmental (2nd Qtr. 2009)	4/23/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	3.76		2440	7.19	-29	514		8.1				5 U	5 U	10.4						
Environmental (4th Qtr. 2009)	10/26/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.5 J	5 U	5 U	5 U	1 U	1 U	6.18		2194	7.24	14	413		5.3				5 U	50 U	10 U						
Environmental (2nd Qtr. 2010)	4/27/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	0.56 J	5 U	5 U	5 U	1 U	1 U	3.45		2420	7.02	-17	428		9.5				5 U	50 U	10.1						
Environmental (4th Qtr. 2010)	10/27/2010						5 U	5 U	0.64 J	5 U	5 U	5 U	1 U	1 U	4.08		2242	7.13	-18	422		6.9				5 U	50 U	10.4						
Environmental (2nd Qtr. 2011)	5/13/2011						5 U	5 U	1 J	5 U	5 U	5 U	1 U	1 U	1.08		2450	6.73	94	535		11				5 U	50 U	11.1						
Environmental (4th Qtr. 2011)	10/18/2011						5 U	5 U	1.7 J	5 U	5 U	5 U	1 U	1 U	3.31		2700	6.78	58	325		15				5 U	50 U	14						
Environmental (2nd Qtr. 2012)	4/27/2012						5 U	5 U	1 J	5 U	5 U	5 U	1 U	1 U	1.65		2290	6.94	13	312		15				5 U	50 U	12.3						
Environmental (4th Qtr. 2012)	10/24/2012						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	1.21		2080	6.99	-17	302		30				5 U	50 U	13.5						
Environmental (2nd Qtr. 2013)	4/23/2013						5 U	5 U	1 J	5 U	5 U	5 U	1 U	1 U	1.25		2026	7.02	-25	341		33				5 U	50 U	13.3						
Environmental (4th Qtr. 2013)	10/22/2013						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.99	55	2007	7.12	-37	783	0.4	30			771	1 U	5 U	50 U	16.5					
Environmental (2nd Qtr. 2014)	5/1/2014						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.91	50	2135	6.96	0	390	0.6	27			800	0.98 U	5 U	50 U	10 U					
Environmental (4th Qtr. 2014)	10/24/2014						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.56	40	1980	7.09	-41	297	0.2 U	46			723	1 U	5 U	50 U	12.5					
Environmental (2nd Qtr. 2015)	5/12/2015						5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.52	55	2043	7.01	-53	372	0.2 U	50			817	0.95 U	5 U	50 U	13.6					
Environmental (4th Qtr. 2015)	10/14/2015						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.5	40	2013	7.05	-74	331	0.2 U	75			773	0.96 U	5 U	50 U	14.2					
Environmental (2nd Qtr. 2016)	4/26/2016						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.5	40	2183	6.97	-20	325	0.3	68			816	1 U	5 U	50 U	14.3					
Environmental (4th Qtr. 2016)	11/11/2016						5 U	5 U	0.92 J	5 U	5 U	5 U	1 U	1 U	0.66	45	2055	7.01	8	260	0.2	52			859	1 U	5 U	50 U	13.1					
Environmental (2nd Qtr. 2017)	5/11/2017						5 U	5 U	0.99 J	5 U	5 U	5 U	1 U	1 U	0.78	40	2252	7.04	-24	370	0.2 U	61			847	0.98 U	5 U	50 U	15.3					
Environmental (4th Qtr. 2017)	10/24/2017						5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.76	45	2162	7.01	-74	310	0.2 U	64			840	0.99 U	5 U	50 U	14.6					
Environmental (2nd Qtr. 2018)	4/23/2018						5 U	5 U	0.8 J	5 U	5 U	5 U	1 U	1 U	0.69	35	2060	7.04	-24	307	0.3	46			714	0.98 U	5 U	50 U	13.8					
Environmental (4th Qtr. 2018)	10/23/2018						5 U	5 U	0.94 J	5 U	5 U	5 U	1 U	1 U	1	40	2031	6.99	-54	285	0.2 U	57			730	0.97 U	5 U	50 U	13					
Environmental (2nd Qtr. 2019)	4/24/2019						5 U	5 U	0.75 J	5 U	5 U	5 U	1 U	1 U	0.44	50	2034	7.06	-20	321	0.2 U	47			783	0.98 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2019)	10/29/2019						5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.62	50	2064	7.12	-33	320	0.2 U	69			800	0.01 U	5 U	50 U	0.2					
Environmental (2nd Qtr. 2020)	4/28/2020						5 U	5 U	0.83 J	5 U	5 U	5 U	1 U	1 U	0.45	30	2154	7.09	-23	351	0.4	66			838	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2020)	10/28/2020						5 U	5 U	0.97 J	5 U	5 U	0.23 J	1 U	1 U	2.62	60	2130	6.99	-10	314	0.2 U	72			793	0.05 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2021)	4/22/2021						5 U	5 U	0.7 J	5 U	5 U	5 U	1 U	1 U	0.51	35	2055	6.9	-18	353	0.2 U	64			794	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2021)	10/30/2021						5 U	5 U	1.4 J	5 U	5 U	0.26 J	1 U	1 U	2.95	50	2042	7.07	-30	354	0.5	69			741	0.05 U	5 U	50 U	0.2					
Environmental (2nd Qtr. 2022)	4/26/2022						5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.5	60	1890	6.77	-10	194	0.2 U	59			596	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2022)	10/28/2022						5 U	5 U	1.1 J	5 U	5 U	5 U	2.4 U	3.3 U	1.44	25	1849	6.98	-45	310	0.5	43.2			585	0.05 U	5 U	50 U	0.2					
Environmental (2nd Qtr. 2023)	5/1/2023						5 U	5 U	1.2 J	5 U	5 U	5 U	2.4 U	3.3 U	1.58	40	1812	7.19	-10	400	0.2 U	23.2			583	0.05 U	5 U	50 U	0.2 U					
Environmental (4th Qtr. 2023)	10/27/2023						5 U	5 U	1.2 J	5 U	5 U	5 U	5 U	5.2 U		45	1871	7.03	-40	400	0.4	61			619	0.05 U	5 U	50 U	0.2 U					
Environmental (2nd Qtr. 2024)	4/9/2024						5 U	5 U	0.95 J	5 U	5 U	5 U	5 U	5.2 U		40	1868	7.11	7	300	0.3	58			623	0.05 U	5 U	50 U	0.7					
T-37DB																																		
Baseline Sampling	1/16/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.5	30	980	7.34	311	139	0.2 U	8.5			87.4 J	0.01 U	4 U	3 U	10 U	0.0584	365	2 U	15.7	5 U
Environmental (4th Qrt 2007)	12/5/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.7		865	7.46	52	119		13				5 U	5 U	10 U						
Environmental (2nd Qrt 2008)	5/2/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.16		812	7.4	117	106		12				5 U	5 U	10 U						
Environmental (4th Qrt 2008)	11/17/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.4		779	7.45	-16	111		13				5 U	5 U	10 U						
Environmental (2nd Qtr. 2009)	4/29/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.47		829	7.08	29	132		11				5 U	5 U	10 U						
Environmental (4th Qtr. 2009)	10/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.39		808	7.37	-4	123		15				5 U	50 U	10 U						
Environmental (2nd Qtr. 2010)	5/3/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.25		833	6.86	-42	139		15				5 U	50 U	10 U						
Environmental (4th Qtr. 2010)	10/28/2010						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.27		816	7.1	-6	105		12				5 U	50 U	10 U						
Environmental (2nd Qtr. 2011)	5/16/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.42		807	6.64	148	106		13				5 U	50 U	10 U						
Environmental (4th Qtr. 2011)	10/21/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.68		809	7.01	-41	131		17				5 U	50 U	10 U						
Environmental (2nd Qtr. 2012)	4/30/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.57		870	6.85	-12	100 U		21				5 U	50 U	10 U						
Environmental (4th Qtr. 2012)	10/25/2012																																	

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2- BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P- XYLENE (UG/L)	4-METHYL-2- PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-36DB																											
Baseline Sampling	1/17/2007		3.64	6.4		1.65	0.05 U	1 U	1.71		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/7/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.5 J
Environmental (2nd Qrt 2008)	4/25/2008									4.6 JB	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/13/2008									20 U	0.25 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	0.19 J	10 U	5 U	5 U	0.61 J
Environmental (2nd Qtr. 2009)	4/23/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/26/2009									20 U	1.1 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	2.2 J
Environmental (2nd Qtr. 2010)	4/27/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/27/2010					2.4				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/13/2011					1.6				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/18/2011					1.4				1.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/27/2012					1.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/24/2012					1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/23/2013					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/22/2013			10.7		1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/1/2014			12.1		4.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/24/2014			12.3		1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/12/2015			13.1		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/14/2015			11.3		1.3			1.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/26/2016			8.2		3.8			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/11/2016			10.8		2			1.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/11/2017			11.3		1.2			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/24/2017			12		1.2			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/23/2018			12.5		3.1			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/23/2018			11.3		2.9			1.1	5.6 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/24/2019			11.1		1.3			0.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.42 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/29/2019			12.9		1.3			1.9	2.2 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/28/2020			7.8		1.6			1.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/28/2020			11.2		1.8			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/22/2021			10.4		1.4			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/30/2021			11.6		1.5			1.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/26/2022			11.1		1 U			0.1	10 U	5 U	5 U	5 U	5 U	10 U	0.71 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/28/2022			11		1 U			0.8	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	5/1/2023			11		1.1			4.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/27/2023			12.7		1.2			1.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/9/2024			11.4		1 U			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-37DB																											
Baseline Sampling	1/16/2007		3.73	6.3		1.29	0.05 U	1 U	0.32		1 U														1 U		1 U
Environmental (4th Qrt 2007)	12/5/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/2/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/17/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/29/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/27/2009									1.9 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	5/3/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/28/2010					2.1				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/16/2011					1.2				1.8 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/21/2011					1.1				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/30/2012					1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/25/2012					1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/24/2013					1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/22/2013			10.5		1 U				1.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/13/2014			11.6		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/25/2014			11.1		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/13/2015			10.7		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			11.8		1			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			9.9		1.7			2.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/11/2016			10.9		2			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/18/2017			18.3		2.3			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/30/2017			11.2		1 U			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018																											

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
		LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
Well	Date																																	
T-37SB																																		
Baseline Sampling	1/17/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1	1 U	2.21	5 U	745	10.26	-30	140	0.2 U	66		69.9	0.01 U	4 U	3 U	10 U	0.532	43	178	36.8	6.73	
Environmental (4th Qrt 2007)	12/5/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	0.84 J	2 U	0.39		809	9.51	-186	357		110				5 U	5 U	10 U						
Environmental (2nd Qrt 2008)	5/2/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1.2	0.43 J	0.19		716	9.62	-43	342		82				5 U	5 U	10 U						
Environmental (4th Qrt 2008)	11/17/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.65		855	8.52	-75	519		79				5 U	5 U	10 U						
Environmental (2nd Qtr. 2009)	4/29/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.42		873	8.7	-214	429		54				5 U	5 U	10 U						
Environmental (4th Qtr. 2009)	10/27/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.1		893	8.32	-231	524		48				5 U	50 U	10 U						
Environmental (2nd Qtr. 2010)	4/30/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24		1079	7.81	-174	537		53				5 U	50 U	10 U						
Environmental (4th Qtr. 2010)	10/28/2010						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.34		933	7.37	-149	457		29				5 U	50 U	10 U						
Environmental (2nd Qtr. 2011)	5/16/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.65		990	7.34	41	481		47				5 U	50 U	10 U						
Environmental (4th Qtr. 2011)	10/21/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.7		1031	7.32	-120	646		61				5 U	50 U	10 U						
Environmental (2nd Qtr. 2012)	4/30/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.75		1022	7.87	-99	511		46				5 U	50 U	10 U						
Environmental (4th Qtr. 2012)	10/25/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.27		1066	7.55	-105	466		42				5 U	50 U	10 U						
Environmental (2nd Qtr. 2013)	4/24/2013						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.8		1084	7.57	-92	531		39				5 U	50 U	10 U						
Environmental (4th Qtr. 2013)	10/22/2013						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.18	35	1090	7.49	-77	645	0.2	48		113	1 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2014)	5/13/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.6	35	1088	7.43	-87	638	0.8	42		116	0.99 U	5 U	50 U	10 U						
Environmental (4th Qtr. 2014)	10/25/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.71	50	1115	7.35	-71	574	0.2 U	42		118	1 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2015)	5/13/2015						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.26	50	1181	7.43	-87	745	0.2	44		151	0.97 U	5 U	50 U	10 U						
Environmental (4th Qtr. 2015)	10/15/2015						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.16	45	1184	7.41	-83	554	0.3	40		176	0.97 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2016)	4/27/2016						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.66	30	1278	7.23	-82	701	0.5	51		195	1 U	5 U	50 U	10 U						
Environmental (4th Qtr. 2016)	11/11/2016						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.25	40	1378	7.24	-49	784	0.6	43		218	1 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2017)	5/18/2017						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.06	50	1277	6.91	-52	794	0.2 U	38		212	0.94 U	5 U	50 U	10.1						
Environmental (4th Qtr. 2017)	10/30/2017						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.24	30	1286	7.35	-73	652	0.3	34		216	0.98 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2018)	4/30/2018						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.02	60	1432	7.15	-53	905	0.8	42		233	0.98 U	5 U	50 U	10.4						
Environmental (4th Qtr. 2018)	10/29/2018						5 U	5 U	0.36 J	5 U	5 U	5 U	1 U	1 U	9.94	55	1437	7.25	-120	834	0.2	34		239	0.98 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2019)	5/2/2019						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1	25	1427	7.36	-69	834	0.5	30		229	0.98 U	5 U	50 U	0.2						
Environmental (4th Qtr. 2019)	10/29/2019						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.18	40	1413	7.4	-78	794	0.4	35		262	0.01 U	5 U	50 U	0.4						
Environmental (2nd Qtr. 2020)	4/22/2020						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.77	40	1521	7.26	-53	987	0.2 U	59		272	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2020)	10/27/2020						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1	55	1525	7.22	-63	931	0.5	50		280	0.05 U	5 U	50 U	0.2						
Environmental (2nd Qtr. 2021)	4/23/2021						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.95	55	1533	7.08	-72	964	0.5	52		277	0.05 U	5 U	50 U	0.2						
Environmental (4th Qtr. 2021)	10/27/2021						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.34	50	1524	6.97	-58	1210	1.5	67		264	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2022)	4/28/2022						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.2 U	55	1427	7.03	-45	943	0.2 U	73		232	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2022)	10/25/2022						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.97	40	1421	6.97	-69	510	0.5	9.5		261	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2023)	4/27/2023						5 U	5 U	0.24 J	5 U	5 U	5 U	2.4 U	3.3 U	0.95	35	1384	7.27	-71	720	0.5	28.4		248	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2023)	10/24/2023						5 U	5 U	0.24 J	5 U	5 U	5 U	5 U	5.2 U		25	1541	7.18	-50	810	0.5	52		260	0.05 U	5 U	50 U	0.2						
Environmental (2nd Qtr. 2024)	4/12/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		35	1508	7.17	-60	900	0.8	41		260	0.05 U	5 U	50 U	0.2 U						
T-38DB																																		
Baseline Sampling	1/18/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.78	55	818	7.59	-10	773	0.7	4.4		70.4	0.01 U	4 U	3 U	10 U	0.137	394	2 U	2.8	5 U	
Environmental (4th Qrt 2007)	12/6/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.33		735	7.43	-9	927		4.9				5 U	5 U	10 U						
Environmental (2nd Qrt 2008)	5/2/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.22		775	7.45	100	982		4.4				5 U	5 U	10 U						
Environmental (4th Qrt 2008)	11/14/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.19		777	7.33	-22	540		7.3				5 U	5 U	10 U						
Environmental (2nd Qtr. 2009)	4/24/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.17		826	7.52	-53	584		11				5 U	5 U	10 U						
Environmental (4th Qtr. 2009)	10/28/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.21		808	6.99	-75	665		11				5 U	50 U	10 U						
Environmental (2nd Qtr. 2010)	4/27/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.23		889	7.37	-80	525		12				5 U	50 U	10 U						
Environmental (4th Qtr. 2010)	10/26/2010						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24		835	7.16	-85	656		6.8				5 U	50 U	10 U						
Environmental (2nd Qtr. 2011)	5/16/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.4		830	6.83	91	530		12				5 U	50 U	10 U						
Environmental (4th Qtr. 2011)	10/20/2011						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.52		855	7.05	-69	624		8.9				5 U	50 U	10 U						
Environmental (2nd Qtr. 2012)	4/26/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.68		686	6.95	-61	466		12				5 U	50 U	10 U						
Environmental (4th Qtr. 2012)	10/25/2012						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.66		835	7.21	-75	509														

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-37SB																											
Baseline Sampling	1/17/2007		3.68	6.8		2.96	0.05 U	1 U	1.8		1 U																1 U
Environmental (4th Qrt 2007)	12/5/2007									3.4 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/2/2008									20 U	5 U	5 U	5 U	5 U	10 U	3.9 J	5 U	5 U	0.51 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/17/2008									1.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/29/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/27/2009									4.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/30/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/28/2010					3				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/16/2011					2.9				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/21/2011					2.2				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/30/2012					2.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/25/2012					2.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/24/2013					2.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/22/2013			11.1		2.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/13/2014			11.5		2.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/25/2014			11.4		2.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/13/2015			11.7		1.9				2.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			12.2		2.2			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			9.3		3			0.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/11/2016			10.9		3.3			1.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/18/2017			13.2		2.7			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/30/2017			11.9		1.6			1.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/30/2018			10.8		2.2			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/29/2018			11.2		1.9			0.8	2.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/2/2019			11.5		1.8			0.7	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/29/2019			12		1.7			0.9	4.8 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/22/2020			8		1.6			4.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/27/2020			11.3		1.7			1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.36 BJ	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/23/2021			11.5		1.4			0.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/27/2021			12.7		1.5			4.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/28/2022			11.8		1 U			0.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/25/2022			13.4		1 U			1.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/27/2023			11.7		1.1			3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/24/2023			12.4		1			0.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/12/2024			11.9		1 U			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-38DB																											
Baseline Sampling	1/18/2007		3.77	5		1.16	0.05 U	1 U	3.57		1 U															1 U	1 U
Environmental (4th Qrt 2007)	12/6/2007									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qrt 2008)	5/2/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	11/14/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/24/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/28/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/27/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/26/2010					2 U				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/16/2011					1.2				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/20/2011					1 U				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/26/2012					1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/25/2012					1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/24/2013					1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/22/2013			11.1		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	5/1/2014			11.6		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/25/2014			10.4		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/12/2015			12.6		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/15/2015			12.2		1 U			3.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/27/2016			8.4		3.1			1.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/11/2016			11.1		2			1.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/18/2017			13.7		2.8			0.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/30/2017			10.7		1.1			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/27/201																										

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																			
Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)		
T-39SB																																			
Baseline Sampling	1/18/2007	1 U	0.5 U	1 U	2 U	1 U	1 U	1 U	1.7	1 U	1 U	1 U	1 U	1 U	0.93	50	1036	7.51	-103	6090	3.1	24		81.8 J	0.01 U	4 U	3 U		60.8	0.123	428	2 U	64.1	5 U	
Injection 1 - 60 Day Performance	8/16/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	0.48 J	2.7 J	5 U	5 U	5 U	1 U	1 U	0.36	90	1120	7.42	-166	7930	2.8	20		0.05 U	79.9	0.01 U	5 U	5 U		82	0.0888	418	2 U	78.5	7.62
Injection 1 - 90 Day Performance	9/14/2007	1 U	0.5 U	2.6	2 U	1 U	5 U	5 U	32	0.26 J	0.38 J	8.7	1 U	1 U	1	70	1134	7.28	-161	7040	1.8	24		0.05 U	79.7	0.08	5 U	5 U		70.8	0.11	429	2 U	76.2	9.7
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/15/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.9 J	5 U	5 U	5 U	1 U	1 U	3.5	105	1121	7.4	-124	5560	1.8	26		0.05 U	89.6	0.01 U	5 U	7.6		53.1	0.115	430	2 U	78.2	5 U
Injection 2 - 90 Day Performance	11/14/2007	1 U	0.5 U	1 U	2 U	1 U	5 U	0.37 J	1.9 J	5 U	5 U	0.25 J	1 U	1 U	0.47	75	1087	7.47	-112	5660	1.4	32		0.05 U	82.7	0.01 U	5 U	5 U		57.5	0.192	416	2 U	74.5	6.22
Injection 2 - 120 Day Performance	12/14/2007	1 U	0.5 U	1.1	2 U	1 U	5 U	0.39 J	1.5 J	5 U	5 U	5 U	1 U	1 U	0.44	75	971	7.25	-114	5640	0.8	37		0.0739	62.2	0.02	5 U	5 U		62.1	0.098	420	2 U	57.4	6.58
Injection 3 - 60 Day Performance	1/15/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.3 J	5 U	5 U	5 U	1 U	1 U	0.47	80	981	7.48	-136	7980	0.8	31		0.05 U	69.9	0.01	5 U	5 U		94.5	0.113	411	2 U	48.1	5.16
Injection 3 - 90 Day Performance	2/19/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.34	70	973	7.63	-105	7080	4.6	36		0.05 U	75.7	0.01 U	5 U	5 U		70.4	0.144	416	2 U	51.1	5 U
Injection 3 - 120 Day Performance	3/18/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.1 J	5 U	5 U	5 U	1 U	1 U	0.45	125	979	7.49	-125	7200	3	32		0.05 U	70.3	0.01 U	5 U	5 U		73.1	0.0939	411	2 U	48.5	13.6
Environmental (4th Qrt 2008)	10/24/2008	1 U	0.5 U	1 U	2 U	1 U	5 U	0.52 J	2 J	5 U	5 U	5 U	1 U	1 U	0.5		1026	7.24	-17	5670		21					5 U	5 U							
Environmental (2nd Qtr. 2009)	4/24/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.29		972	7.69	-140	11000		27					5 U	5 U							
Environmental (4th Qtr. 2009)	10/29/2009	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.5 J	5 U	5 U	5 U	1 U	1 U	0.23		981	7.28	-93	4090		23					5 U	50 U							
Environmental (2nd Qtr. 2010)	4/29/2010	1 U	0.5 U	1 U	2 U	1 U	5 U	5 U	1.3 J	5 U	5 U	5 U	1 U	1 U	0.14		956	7.44	-149	4780		29					5 U	50 U							
Environmental (4th Qtr. 2010)	10/27/2010						5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.29		972	7.32	-73	1210		19					5 U	50 U							
Environmental (2nd Qtr. 2011)	5/13/2011						5 U	5 U	1.6 J	5 U	5 U	5 U	1 U	1 U	0.27		1018	6.85	-73	6160		23					5 U	50 U							
Environmental (4th Qtr. 2011)	10/19/2011						5 U	0.28 J	1.5 J	5 U	5 U	5 U	1 U	1 U	0.69		1127	6.83	-102	1300		23					5 U	50 U							
Environmental (2nd Qtr. 2012)	4/27/2012						5 U	5 U	1.5 J	5 U	5 U	5 U	1 U	1 U	0.63		1065	6.86	-86	1300		24					5 U	50 U							
Environmental (4th Qtr. 2012)	10/25/2012						5 U	0.24 J	1.3 J	5 U	5 U	5 U	1 U	1 U	0.59		1034	7.13	-81	971		26					5 U	50 U							
Environmental (2nd Qtr. 2013)	4/23/2013						5 U	5 U	0.97 J	5 U	5 U	5 U	1 U	1 U	0.8		944	7.18	-103	1440		23					5 U	50 U							
Environmental (4th Qtr. 2013)	10/21/2013						5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.72	55	1008	7.12	-75	1160	0.6	24		93.5	1 U	5 U	50 U								
Environmental (2nd Qtr. 2014)	4/30/2014						5 U	0.24 J	1 J	5 U	5 U	5 U	1 U	1 U	0.88	45	977	7.12	-65	1020	0.2 U	25		86.6	0.99 U	5 U	50 U								
Environmental (4th Qtr. 2014)	10/24/2014						5 U	0.27 J	1.5 J	5 U	5 U	5 U	1 U	1 U	0.27	60	1166	7.16	-120	1190	1	26		113	1 U	5 U	50 U								
Environmental (2nd Qtr. 2015)	5/12/2015						5 U	5 U	1.2 J	5 U	5 U	5 U	1 U	1 U	0.44	50	972	7.19	-101	2330	0.8	29		86.4	0.96 U	5 U	50 U								
Environmental (4th Qtr. 2015)	10/14/2015						5 U	0.31 J	2.3 J	5 U	5 U	5 U	1 U	1 U	0.49	45	1354	7.1	-85	2200	0.2	24		209	0.97 U	5 U	50 U								
Environmental (2nd Qtr. 2016)	4/28/2016						5 U	0.33 J	1.7 J	5 U	5 U	5 U	1 U	1 U	0.2 U	40	1277	6.93	-70	1240	0.2 U	26		179	1 U	5 U	50 U								
Environmental (4th Qtr. 2016)	11/10/2016						5 U	5 U	1.6 J	5 U	5 U	5 U	1 U	1 U	0.44	40	1095	7.16	-92	1980	0.6	31		174	1 U	5 U	50 U								
Environmental (2nd Qtr. 2017)	5/23/2017						5 U	0.33 J	2.3 J	5 U	5 U	5 U	1 U	1 U	0.34	55	1215	7.06	-81	2950	0.2 U	22		161	0.96 U	5 U	50 U								
Environmental (4th Qtr. 2017)	10/26/2017						5 U	0.76 J	2.9 J	5 U	5 U	5 U	1 U	1 U	0.39	40	1269	7.07	-178	1380	0.2 U	29		189	1 U	5 U	50 U								
Environmental (2nd Qtr. 2018)	4/24/2018						5 U	0.28 J	2 J	5 U	5 U	5 U	1 U	1 U	0.36	55	1209	7.11	-129	3800	1	41		155	0.97 U	5 U	50 U								
Environmental (4th Qtr. 2018)	10/24/2018						5 U	0.34 J	1.9 J	5 U	5 U	5 U	1 U	1 U	0.48	50	1214	7.07	-133	1420	0.2 U	40		163	1 U	5 U	50 U								
Environmental (2nd Qtr. 2019)	4/24/2019						5 U	0.32 J	2.5 J	5 U	5 U	5 U	1 U	1 U	0.2 U	35	1294	7.21	-116	3900	0.2 U	28		236	0.96 U	5 U	50 U								
Environmental (4th Qtr. 2019)	10/29/2019						5 U	0.43 J	2.5 J	5 U	5 U	5 U	1 U	1 U	0.2 U	65	1281	7.2	-65	1610	0.8	48		198	0.01 U	5 U	50 U								
Environmental (2nd Qtr. 2020)	4/28/2020						5 U	5 U	0.69 J	5 U	5 U	5 U	1 U	1 U	0.2 U	40	1307	7.13	-92	1220	1.3	6.8		356	0.05 U	5 U	50 U								
Environmental (4th Qtr. 2020)	10/27/2020						5 U	0.31 J	2.2 J	5 U	5 U	5 U	1 U	1 U	0.24	50	1305	7.07	-53	1310	1	63		196	0.05 U	5 U	50 U								
Environmental (2nd Qtr. 2021)	4/27/2021						5 U	0.3 J	2.5 J	5 U	5 U	5 U	1 U	1 U	0.33	65	1443	7.05	-88	2760	1	38		236	0.05 U	5 U	50 U								
Environmental (4th Qtr. 2021)	10/28/2021						5 U	0.58 J	4.7 J	5 U	5 U	0.24 J	1 U	1 U	0.3	50	1281	7.31	-149	3650	3	25		271	0.05 U	5 U	50 U								
Environmental (2nd Qtr. 2022)	4/28/2022						5 U	1.4 J	7.2	5 U	5 U	5 U	1 U	1 U	0.31	40	1054	7.18	-126	4010	0.2 U	14		256	0.05 U	5 U	50 U								
Environmental (4th Qtr. 2022)	10/26/2022						5 U	1.7 J	7.4	5 U	5 U	0.21 J	2.4 U	3.3 U	2.15	25	1067	7.01	-57	2510	1	5.5		272	0.05 U	5 U	50 U								
Environmental (2nd Qtr. 2023)	4/28/2023						5 U	1.5 J	7.3	5 U	5 U	0.21 J	2.4 U	3.3 U	1.81	20	1077	7.4	-74	3680	0.5	8.5		284	0.05 U	5 U	50 U								
Environmental (4th Qtr. 2023)	10/25/2023						5 U	1.4 J	12	5 U	5 U	1.1 J	5 U	5.2 U	12	25	1199	7.24	-96	2430	1.5	35		234	0.05 U	5 U	50 U								
Environmental (2nd Qtr. 2024)	4/12/2024						5 U	0.37 J	29	0.22 J	5 U	3.6 J	5 U	5.2 U	40	1518	6.99	-229	2590	0.9	27		76.3	1.4	5 U	50 U									
T-40DB																																			
Environmental (2nd Qtr. 2024)	4/19/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		30	783	7.43	-54	870	0.4	5.2 U		58.1	0.05 U	5 U	50 U								
T-40SB																																			
Environmental (2nd Qtr. 2024)	4/19/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		25	947	7.6	-105	34800	1.6	72		17.1	0.05 U	5 U	50 U								
WEX-210-DB																																			
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008							5 U	5 U																										

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
T-39SB																											
Baseline Sampling	1/18/2007		4.52	6.5		1.77	0.05 U	1 U	1.45		1 U																1 U
Injection 1 - 60 Day Performance	8/16/2007	5 U	1.22	13.5	0.2 U	1.08	0.05 U	1 U	1.5	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 1 - 90 Day Performance	9/14/2007	5 U	4.02	14.1	0.31	1 U	0.05 U	1 U	1	0.89 J	5 U	5 U	5 U	5 U	10 U	0.21 J	5 U	5 U	5 U	5 U	5 U	10 U	0.38 J	10 U	5 U	5 U	0.73 J
Injection 1 - 120 Day / Injection 2 - 60 Day Performance	10/15/2007	5 U	2.09	11.8	0.2 U	1.57	0.1 U	1 U	3.7	2.1 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 90 Day Performance	11/14/2007	5 U	2.52	12.4	0.372	1.54	0.05 U	1 U	1.51	0.85 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 2 - 120 Day Performance	12/14/2007	5.15 U	1.79	8.8	0.226	1.71	0.1 U	1 U	1.3	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 60 Day Performance	1/15/2008	5 U	3.1	8.8	0.277	1.53	0.05 U	1 U	2.5	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 90 Day Performance	2/19/2008	5 U	2.83	6.7	0.288	1.41	0.052	1 U	0.3	20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Injection 3 - 120 Day Performance	3/18/2008	5 U	1.83	10.2	0.354	1.4	0.05 U	1 U	1.4	0.59 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qrt 2008)	10/24/2008									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2009)	4/24/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2009)	10/29/2009									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2010)	4/29/2010									20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2010)	10/27/2010					2 U				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2011)	5/13/2011					1.5				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2011)	10/19/2011					1.3				20 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2012)	4/27/2012					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2012)	10/25/2012					1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2013)	4/23/2013					1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2013)	10/21/2013			12.2		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/30/2014			10.4		1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/24/2014			12.4		1.7				10 U	5 U	5 U	5 U	5 U	10 U	0.62 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	5/12/2015			12.9		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/14/2015			11.6		1.5			3.6	1.3 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/28/2016			8.3		2.2			1.8	1.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2016)	11/10/2016			8.9		5.7			2.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/23/2017			12		1.6			2.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.25 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/26/2017			11.6		1.1			2.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/24/2018			11.8		3.3			4.2	1.4 J	5 U	5 U	5 U	5 U	10 U	0.81 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/24/2018			11.1		1.4			0.9	2.7 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.45 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/24/2019			11.5		1.3			2.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.33 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/29/2019			12		1.3			3	2.4 BJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/28/2020			8.3		2.2			2.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/27/2020			11.4		1.8			2.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/27/2021			12.4		1.4			3.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/28/2021			12.3		1.3			1.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/28/2022			11.3		1.2			20.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/26/2022			12.5		1			5.6	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/28/2023			12.1		1.6			9.3	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/25/2023			12.3		1.5			2.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/12/2024			12.4		51.2			5.6	10 U	5 U	5 U	5 U	5 U	25	1.7 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-40DB																											
Environmental (2nd Qtr. 2024)	4/19/2024			10.8		1 U			10.1	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
T-40SB																											
Environmental (2nd Qtr. 2024)	4/19/2024			10.8		5.6			100	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	0.34 J
WEX-210-DB																											
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008					1.36																					
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/10/2008					1.12																					
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/21/2009					2																					
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009					1.3																					
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/17/2012																										
Environmental (4th Qtr. 2013)	10/28/2013			11.8		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2014)	1/20/2014			9.2		1.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/28/2014			12		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2014)	7/21/2014			13.8		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/26/2014			11.4		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2015)	1/20/2015			9.4		1 U			3.2	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	4/28/2015			12.3		1				2.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	0.37 J	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2015)	7/27/2015			12.6		1				10 U	5 U	5 U	5 U														

APPENDIX C MONITORING DATA SUMMARY (DETECTIONS) TANTALO SUE DISPOSAL SITE, OU-2 August 2024																																			
Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)		
WEX-210-SB																																			
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008							5 U	5 U	5 U	5 U	5 U						587	9.87	18														11.2	5 U
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/14/2008							5 U	5 U	5 U	5 U	5 U						611	9.54	87														8.84	8.63
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/22/2009							5 U	5 U	5 U	5 U	5 U						738	8.41	-65														7.8	5.4
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009							5 U	5 U	5 U	5 U	5 U						1339	10.08	13														10	5 U
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/6/2012																																		
Environmental (4th Qtr. 2013)	10/28/2013						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	3.11	5 U		511	11.11	-28	257	0.2 U	2.1		54	0.97 U	5 U	50 U	10 U						
Environmental (1st Qtr. 2014)	1/20/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.57	40		590	8.26	-97	754	0.2 U	3.5		61.9	0.97 U	5 U	50 U	13						
Environmental (2nd Qtr. 2014)	4/28/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.21	15		617	8.67	-68	276	0.2 U	3.6		62.6	0.99 U	5 U	50 U	10 U						
Environmental (3rd Qtr. 2014)	7/21/2014						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	2.42	40		678	8.23	-89	205	0.2 U	4.1		66.2	0.96 U	5 U	5 U	10 U						
Environmental (4th Qtr. 2014)	10/26/2014						5 U	0.54 J	5 U	5 U	5 U	5 U	1 U	1 U	0.48	35		688	7.71	-122	770	0.2 U	4.2		61.3	1 U	5 U	50 U	11.1						
Environmental (1st Qtr. 2015)	1/20/2015						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.69	45		569	8.87	-2	0.2 U	3.8		64.3	0.01 U	5 U	50 U	0.6							
Environmental (2nd Qtr. 2015)	4/28/2015						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U		45		580	8.84	-11	142	0.2 U	3.8		61.9	1 U	5 U	50 U	10 U						
Environmental (3rd Qtr. 2015)	7/27/2015						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.5	35		645	7.76	-92	153	0.2 U	3.7		66.1	0.98 U	5 U	50 U	10 U						
Environmental (4th Qtr. 2015)	10/8/2015						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1.54	70		554	9.29	-145	157	0.2 U	2.5		64.7	0.99 U	5 U	50 U	10 U						
Environmental (1st Qtr. 2016)	2/29/2016						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.75	60		624	8.24	0	128	0.2 U	4.2		68.1	0.97 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2016)	4/29/2016						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24	40		677	7.7	-85	100 U	0.2 U	4.9		71.7	1 U	5 U	50 U	10 U						
Environmental (3rd Qtr. 2016)	7/11/2016						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.51	25		595	7.78	-29	100 U	0.2 U	3.8		68.2	0.97 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2017)	5/11/2017						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.49	50		625	8.14	-94	100 U	0.2 U	3.8		68.6	0.97 U	5 U	50 U	10 U						
Environmental (4th Qtr. 2017)	10/25/2017						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.51	50		586	9.31	-34	213	0.2 U	3.9		72.1	0.99 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2018)	4/25/2018						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.7	30		685	7.54	-66	111	0.2 U	4		61.9	1 U	5 U	50 U	10 U						
Environmental (4th Qtr. 2018)	10/24/2018						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.52	50		717	7.39	-134	167	0.2 U	3.3		66.9	0.98 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2019)	5/1/2019						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.28	35		659	7.8	-66	111	0.2 U	3.9		70.5	0.97 U	5 U	50 U	0.3						
Environmental (4th Qtr. 2019)	10/30/2019						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.3	30		718	7.53	-61	150	0.2 U	4.1		69.9	0.01 U	5 U	50 U	0.6						
Environmental (2nd Qtr. 2020)	4/23/2020						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.21	25		681	7.74	-74	118	0.2 U	4		69.3	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2020)	10/22/2020						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.34	30		712	7.5	-54	114	0.2 U	3.7		70.2	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2021)	4/26/2021						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24	25		650	7.7	-88	100 U	0.2 U	7.7		74.4	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2021)	10/21/2021						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.54	35		630	8.81	-53	104	0.2 U	9.3		91.1	0.05 U	5 U	50 U	0.8						
Environmental (2nd Qtr. 2022)	4/26/2022						5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.24 *	35 *		834	7.15 *	-22 *	197	0.2 U *	8.4		152	0.05 U *	5 U	50 U	0.2 U *						
Environmental (4th Qtr. 2022)	10/27/2022						5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	1.28	15		662	9.27	53	360	0.2 U	3.3		176	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2023)	5/2/2023						5 U	5 U	5 U	5 U	5 U	5 U	2.4 U	3.3 U	0.37	15		830	7.5	-47	200	0.2 U	1.5 U		175	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2023)	10/31/2023						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		20		837	7.61	-39	170	0.2	5.2		173	0.05 U	5 U	50 U	0.3						
Environmental (2nd Qtr. 2024)	4/10/2024						5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U		5 U		3136	12.12	-97	100 U	0.3	5.2 U		101	0.05 U	5 U	50 U	1.1						
WEX-211-SB																																			
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/23/2008							130	64	0.5 J	5 U	5 U						1239	7.19	26														75.6	10.1
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/16/2008							98	42	0.41 J	5 U	5 U						1092	7.19	41														36.9	12.4
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/22/2009							120	55	0.63 J	5 U	5 U						1190	7.31	-8														41.7	5 U
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009							160	70	0.85 J	5 U	5 U						1188	7.1	73														47	6.1
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/6/2012							37	18	5 U	5 U	5 U																							
Environmental (4th Qtr. 2013)	10/28/2013						5 U	61	22	0.79 J	5 U	5 U	1 U	1 U	1.59	90		1407	6.85	103	116	0.2	1 U		509	0.98 U	5 U	50 U	10 U						
Environmental (1st Qtr. 2014)	1/20/2014						5 U	110	49	0.39 J	5 U	5 U	1 U	1 U	1.78	45		1709	6.95	104	100 U	0.2 U	1 U		658	0.99 U	5 U	50 U	10 U						
Environmental (2nd Qtr. 2014)	4/28/2014						5 U	76	29	5 U	5 U	5 U	1 U	1 U	1.73	70		2239	6.86	-165	101	0.2 U	1 U		950	0.99 U	5 U	50 U	10 U						
Environmental (3rd Qtr. 2014)	7/21/2014						5 U	97	55	0.45 J	5 U	0.92 J	1 U	1 U		45		2023	6.96	100	100 U	0.2 U	1 U		610	0.96 U	5 U	5 U	10 U						
Environmental (4th Qtr. 2014)	10/26/2014						5 U	49	25	5 U	5 U	5 U	1 U	1 U	1.06	65		1474	6.97	89	100 U	0.2 U	1 U		404	1 U	5 U	50 U	10 U						
Environmental (1st Qtr. 2015)	1/22/2015						5 U	76	36	5 U	5 U	5 U	1 U	1 U	0.37	65		2066	6.85	114	0.2 U	1 U		820	0.01 U	5 U	50 U	1.4							
Environmental (2nd Qtr. 2015)	4/28/2015						5 U	64	26	1.5 J	5 U	5 U	1 U	1 U	1.64	40		2234	6.8	109	100 U	0.2 U	1 U		1040	0.97 U	5 U	50 U	10 U						
Environmental (3rd Qtr. 2015)	7/27/2015						5 U	62	30	0.47 J	5 U	0.45 J	1 U	1 U	0.42	45		1506	7.14	52	295	0.2 U	2.5		486	0.98 U	5 U	50 U	12						
Environmental (4th Qtr. 2015)	10/8/2015						5 U	53	28	0.45 J	5 U	0.32 J	1 U	1 U	0.72	50		1552	7.17	-216	100 U	0.2 U	1.2		543	0.99 U	5 U	50 U	10 U						
Environmental (1st Qtr. 2016)	2/29/2016						5 U	46	20	5 U	5 U	5 U	1 U	1 U	2.35	45		2275	6.94																

APPENDIX C
MONITORING DATA SUMMARY (DETECTIONS)
TANTALO WASTE DISPOSAL SITE, OU-2
August 2024

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2- BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P- XYLENE (UG/L)	4-METHYL-2- PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
WEX-210-SB																											
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/22/2008					2.65																					
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/14/2008					1.61																					
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/22/2009					1.3																					
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009					3.1																					
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/6/2012																										
Environmental (4th Qtr. 2013)	10/28/2013			12.3		1 U				8.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2014)	1/20/2014			9.6		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/28/2014			11.9		1 U				4.2 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2014)	7/21/2014			12.7		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/26/2014			11.5		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2015)	1/20/2015			8.9		1 U			9.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	4/28/2015			12.2		1.4				4.5 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2015)	7/27/2015			13.4		1 U				1.3 J	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/8/2015			12.5		1 U			30.4	2 J	5 U	5 U	5 U	5 U	10 U	0.68 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2016)	2/29/2016			10.5		1 U				9.4	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	4/29/2016			8.7		1 U				3.7	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2016)	7/11/2016			11.9		3.1				8	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/11/2017			12		1 U				6.1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/25/2017			12.1		1 U				4.9	1.9 J	5 U	5 U	5 U	10 U	0.24 B J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/25/2018			11.6		4.7				6.6	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/24/2018			11.2		1.6				1.6	4.3 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	5/1/2019			11.5		1 U				5.3	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/30/2019			12.2		1 U				3.6	2.3 B J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/23/2020			7.5		1 U				4	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/22/2020			12.2		1 U				2.7	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/26/2021			10.9		1 U				3	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/21/2021			13		1 U				10.4	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/26/2022			10.9 *		1 U				2.6	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/27/2022			12.1		1 U				10.1	5.1 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	0.72 J	5 U	5 U
Environmental (2nd Qtr. 2023)	5/2/2023			11.6		1.1				10.9	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/31/2023			11.6		1.1				5.2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/10/2024			11.7		1 U				36.7	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
WEX-211-SB																											
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/23/2008					2.18																					
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/16/2008					2 U																					
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/22/2009					2.5																					
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009					2.3																					
Landfill Monitoring - 3rd Qrt 2012 (Select Parameters)	7/6/2012																										
Environmental (4th Qtr. 2013)	10/28/2013			12.4		1 U				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2014)	1/20/2014			9.5		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/28/2014			11.9		1.4				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2014)	7/21/2014			13.7		2.5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/26/2014			11.6		1.1				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2015)	1/22/2015			10.3		1.7			1.4	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	4/28/2015			12.4		1.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2015)	7/27/2015			15.1		1.9				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/8/2015			12.8		1.8			1.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2016)	2/29/2016			11.1		4.2				1.4	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	5/4/2016			9.4		1 U				1.2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2016)	7/11/2016			13.4		3.2				2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/18/2017			14.1		2.4				1.3	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/25/2017			12.3		1.8				1.1	3.3 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/24/2018			12.7		3.1				2.1	3.2 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/23/2018			11.9		1.8				2	2.8 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/24/2019			12.4		1.3				1.3	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/29/2019			13		1.3				1.2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/23/2020			8.3		1.4				3.2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/28/2020			12		1.3				30.7	10 U	5 U	5 U	5 U	10 U	0.73 J	0.63 J	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/26/2021			11.8		1.4				9.1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/29/2021			12		2				1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U

MONITORING DATA SUMMARY (DETECTIONS) TANTALO WASTE DISPOSAL SITE, OU-2 August 2024																																		
Well	Date	LACTIC ACID (MG/L)	PYRUVIC ACID (MG/L)	ACETIC ACID (MG/L)	BUTYRIC ACID (MG/L)	PROPIONIC ACID (MG/L)	TETRACHLORO ETHENE (UG/L)	TRICHLORO ETHENE (UG/L)	CIS-1,2- DICHLOROETHENE (UG/L)	TRANS-1,2- DICHLOROETHENE (UG/L)	1,1- DICHLOROETHENE (UG/L)	VINYL CHLORIDE (UG/L)	ETHYLENE (UG/L)	ETHANE (UG/L)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (MG/L)	CONDUCTIVITY (umhos/cm)	PH (S.U.)	REDOX (mV)	IRON (UG/L)	FERROUS IRON (MG/L)	METHANE (UG/L)	NITRATE/NITRITE NITROGEN (MG/L)	SULFATE (MG/L)	SULFIDE (MG/L)	CADMIUMNM (UG/L)	LEAD (UG/L)	MANGANESE (UG/L)	AMMONIA (MG/L)	BICARBONATE ALKALINITY (MG/L)	CARBONATE ALKALINITY (MG/L)	CHLORIDE (MG/L)	CHEMICAL OXYGEN DEMAND (MG/L)	
WEX-213-SB																																		
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/23/2008						5 U	15	45	0.51 J	0.51 J	26						3107	6.95	-95													418	7.21
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/16/2008						5 U	15	32	0.73 J	5 U	14						2697	7.1	-13													292	13.6
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/22/2009						5 U	8.2	32	0.43 J	5 U	17						2901	6.78	-29													302	9.9
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009						5 U	9.6	47	1 J	5 U	22						3322	6.95	20													496	5 U
Landfill Expansion Monitoring - 3rd Qrt 2011 (Select Parameters)	7/29/2011						5 U	0.54 J	2.7 J	5 U	5 U	1.2 J							6.81	-67														
Environmental (4th Qtr. 2013)	10/30/2013						5 U	85	110	1.4 J	0.7 J	10	1 U	1 U		90	1736	6.96	233	851	0.2 U	27		350	0.99 U	5 U	50 U	231						
Environmental (1st Qtr. 2014)	1/31/2014						5 U	120	93	2.1 J	0.7 J	24	3.5	3.5		60	1744	7.07	164	120	0.2 U	330 D		363	1 U	5 U	50 U	102						
Environmental (2nd Qtr. 2014)	4/29/2014						5 U	75	57	0.49 J	5 U	1.1 J	1 U	1 U		20	2450	6.83	77	100 U	0.2	2.2		570	1 U	5 U	50 U	30.6						
Environmental (3rd Qtr. 2014)	7/22/2014						0.82 J	200	940 D	4.1 J	3.1 J	8	1 U	1 U		30	2574	6.77	115	385	0.2 U	1 U		770	0.99 U	5 U	5 U	19.2						
Environmental (4th Qtr. 2014)	10/29/2014						5 U	54	240 D	1.3 J	0.7 J	6.1	1 U	1 U		50	1729	6.99	131	418	0.2 U	72		374	1 U	5 U	50 U	487						
Environmental (1st Qtr. 2015)	1/22/2015						5 U	44	100	1 J	5 U	4.7 J	1 U	1.8		55	1876	7.16	183	0.2 U		150 D		420	0.01 U	5 U	50 U	1.2						
Environmental (2nd Qtr. 2015)	4/28/2015						5 U	11	36	1.2 J	5 U	5 U	1 U	1 U		25	2245	7.11	74	499	0.2 U	1 U		394	1 U	5 U	50 U	281						
Environmental (3rd Qtr. 2015)	7/28/2015						0.45 J	13	220 D	1.5 J	5 U	3.6 J	1 U	1 U		50	1344	7.05	-164	100 U	0.2 U	1.8		280	0.97 U	5 U	50 U	38.5						
Environmental (4th Qtr. 2015)	10/8/2015						4.4 J	17	370	4 J	10 U	4 J	1 U	1 U		45	1478	7.77	150	187	0.2 U	75		311	0.99 U	5 U	50 U	107						
Environmental (1st Qtr. 2016)	3/1/2016						0.97 J	15	100	0.77 J	5 U	5 U	1 U	1 U		55	1554	7.24	176	328	0.2 U	1 U		319	0.98 U	5 U	50 U	230						
Environmental (2nd Qtr. 2016)	5/4/2016						0.9 J	23	110	0.89 J	5 U	5 U	1 U	1 U		40	1730	7.09	73	469	0.2 U	1 U		357	0.98 U	5 U	50 U	367						
Environmental (3rd Qtr. 2016)	7/12/2016						0.54 J	47	110	1.1 J	5 U	5 J	1 U	1 U		50	1719	7.18	68	724	0.2 U	5.6		375	0.97 U	5 U	50 U	647						
Environmental (2nd Qtr. 2017)	5/23/2017						0.63 J	6.4	420 D	1.8 J	1.2 J	12	1 U	1 U		55	1234	7.17	103	181	0.2 U	9.4		280	0.98 U	5 U	50 U	129						
Environmental (4th Qtr. 2017)	10/27/2017						0.49 J	21	120	0.69 J	5 U	0.82 J	1 U	1 U		45	1223	7.04	70	385	0.2 U	1.1 U		258	0.98 U	5 U	50 U	207						
Environmental (2nd Qtr. 2018)	4/20/2018						6	16	480 D	1.8 J	1.4 J	77	1.8	1 U		35	1250	7.33	135	674	0.2 U	48		249	0.99 U	5 U	50 U	767						
Environmental (4th Qtr. 2018)	10/26/2018						1.6 J	3.2 J	160	0.54 J	0.45 J	0.72 J	1 U	1 U		50	840	7.29	159	100 U	0.2 U	1.1 U		151	0.99 U	5 U	50 U	12.2						
Environmental (2nd Qtr. 2019)	4/30/2019						0.46 J	12	150	0.62 J	0.46 J	2.1 J	1 U	1 U	0.2 U	55	1361	7.52	174	100 U	0.2 U	1.1 U		287	0.95 U	5 U	50 U	0.3						
Environmental (4th Qtr. 2019)	10/29/2019						0.44 J	20	200 D	1.1 J	0.35 J	1.3 J	1 U	1 U		25	969	7.09	116	195	0.2 U	1.1 U		259	0.01 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2020)	4/24/2020						0.36 J	26	180	0.81 J	0.75 J	5.9	1 U	1 U		35	1222	7.75	168	100 U	0.2 U	4.7		300	0.05 U	5 U	50 U	0.2 U						
Environmental (4th Qtr. 2020)	10/22/2020						0.48 J	29	94	0.58 J	0.32 J	3.8 J	1 U	1 U		60	1161	7.11	138	100 U	0.2 U	8.7		232	0.05 U	5 U	50 U	0.2 U						
Environmental (2nd Qtr. 2021)	4/27/2021						5 U	9.8	24	5 U	5 U	1.3 J	1 U	1 U		60	1678	6.97	-61	1470	0.5	76		322	0.05 U	5 U	50 U	0.3						
Environmental (4th Qtr. 2021)	10/27/2021						5 U	4.6 J	64	0.47 J	0.28 J	13	1 U	1 U	2.48	55	1133	6.9	-47	1540	1	320 D		183	0.05 U	5 U	50 U	1.2						
Environmental (2nd Qtr. 2022)	4/21/2022						5 U	27	80	0.69 J	0.43 J	14	2 U	2.1 U		75	1688	6.91	242	360	0.2 U	110		273	0.05 U	5 U	50 U	0.5						
Environmental (4th Qtr. 2022)	10/26/2022						5 U	44	140	1.3 J	0.74 J	22	4.8 U	6.6 U		100	1971	6.57	114	380	0.2	29		352	0.05 U	5 U	50 U	1.2						
Environmental (2nd Qtr. 2023)	4/25/2023						5 U	4.2 J	89	0.53 J	0.33 J	11	2.4 U	3.3 U		70	1362	6.78	-160	3620	0.2 U	6.4		255	0.05 U	5 U	50 U	1.3						
Environmental (4th Qtr. 2023)	10/24/2023						5 U	5.1	120	1.1 J	0.72 J	41	5 U	5.2 U		100	1724	6.77	-27	1730	1.5	510		471	0.05 U	5 U	50 U	2.4						
Environmental (2nd Qtr. 2024)	4/11/2024						5 U	1.4 J	31	0.47 J	5 U	9.2	5 U	5.2 U		100	1779	6.79	66	1730	1.4	44		473	0.05 U	5 U	50 U	1.6						

Well	Date	OIL AND GREASE (MG/L)	DISSOLVED ORGANIC CARBONS (MG/L)	TEMPERATURE (°C)	TOTAL KJELDAHL NITROGEN (MG/L)	TOTAL ORGANIC CARBON (MG/L)	TOTAL PHOSPHORUS (MG/L)	TOTAL SULFIDE (MG/L)	TURBIDITY (NTU)	ACETONE (UG/L)	BENZENE (UG/L)	BROMODICHLORO METHANE (UG/L)	BROMO FORM (UG/L)	BROMO METHANE (UG/L)	2-BUTANONE (MEK) (UG/L)	CARBON DISULFIDE (UG/L)	CHLORO ETHANE (UG/L)	CHLORO FORM (UG/L)	CHLORO METHANE (UG/L)	DIBROMO CHLORO METHANE (UG/L)	ETHYL BENZENE (UG/L)	METHYL BUTYL KETONE (UG/L)	M+P-XYLENE (UG/L)	4-METHYL-2-PENTANONE (MIBK) (UG/L)	METHYLENE CHLORIDE (UG/L)	O-XYLENE (UG/L)	TOLUENE (UG/L)
WEX-213-SB																											
Landfill Expansion Monitoring - 3rd Qrt 2008 (Select Parameters)	7/23/2008					3.89																					
Landfill Expansion Monitoring - 4th Qrt 2008 (Select Parameters)	10/16/2008					4.12																					
Landfill Expansion Monitoring - 1st Qrt 2009 (Select Parameters)	1/22/2009					2.9																					
Landfill Expansion Monitoring - 2nd Qrt 2009 (Select Parameters)	4/14/2009					4.6																					
Landfill Expansion Monitoring - 3rd Qrt 2011 (Select Parameters)	7/29/2011					4.6																					
Environmental (4th Qtr. 2013)	10/30/2013			11.8		5				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2014)	1/31/2014			8.6		6.2			11.9	10 U	5 U	5 U	5 U	5 U	10 U	10 U	0.42 J	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2014)	4/29/2014			10.6		8.6				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.38 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2014)	7/22/2014			14.3		6.3				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.49 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2014)	10/29/2014			13.2		6.2				10 U	5 U	5 U	5 U	0.37 J	10 U	0.22 J	5 U	0.4 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (1st Qtr. 2015)	1/22/2015			9.7		5.4			1.5	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2015)	4/28/2015			14.6		6.8				1.6 J	5 U	5 U	5 U	5 U	10 U	0.76 BJ	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2015)	7/28/2015			19		4.2				10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2015)	10/8/2015			15.9		4.6			5.7	20 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U
Environmental (1st Qtr. 2016)	3/1/2016			8.3		7.6				1.1	1.4 J	5 U	5 U	5 U	10 U	10 U	5 U	0.31 J	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2016)	5/4/2016			14.1		4.2				7.7	10 U	5 U	5 U	5 U	10 U	1.7 J	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (3rd Qtr. 2016)	7/12/2016			14.9		7.6				4.6	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2017)	5/23/2017			11.7		4.5				1.7	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2017)	10/27/2017			12.6		3.8				3.2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2018)	4/20/2018			8.1		4.7				5.1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2018)	10/26/2018			14.3		2.2				1.7	6.5 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2019)	4/30/2019			10.1		2.7				5.9	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2019)	10/29/2019			14.7		1.9				2.2	2.2 BJ	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2020)	4/24/2020			9.8		2.2				1.7	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2020)	10/22/2020			15.4		3.7				1.9	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2021)	4/27/2021			9.4		6.2				4.7	10 U	5 U	5 U	5 U	1.6 J	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2021)	10/27/2021			13.9		5.5				6.3	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2022)	4/21/2022			9.6		9.2				2.1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2022)	10/26/2022			14		8.1				3	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2023)	4/25/2023			9.8		12.9				3.1	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (4th Qtr. 2023)	10/24/2023			14.4		9.3				1.5	6.3 J	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U
Environmental (2nd Qtr. 2024)	4/11/2024			10		3.4				6.2	10 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U

APPENDIX D
IC/EC CERTIFICATION FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details	Box 1
Site No. 850004	
Site Name Tantalo Landfill	
Site Address: Salcman Road Zip Code: 13165 City/Town: Waterloo County: Seneca Site Acreage: 26.000	
Reporting Period: June 30, 2023 to June 30, 2024	
	YES NO
1. Is the information above correct?	☒ ☐
If NO, include handwritten above or on a separate sheet.	
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐ ☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐ ☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐ ☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.	
5. Is the site currently undergoing development?	☐ ☒
	Box 2
	YES NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	☒ ☐
7. Are all ICs in place and functioning as designed?	☒ ☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
 _____ Signature of Owner, Remedial Party or Designated Representative	<u>9-17-25</u> _____ Date

SITE NO. 850004

Description of Institutional Controls

Parcel

30-1-03

Owner

Seneca Meadows, Incorporated

Institutional Control

Ground Water Use Restriction
Soil Management Plan

Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan

Declaration of Covenants and Restrictions(DCR) was entered by the RP at the Seneca County Clerk's Office on 09/26/03. The DCR runs with the land, requires maintenance of the engineering controls, prohibits current and future property owners from activities that would affect the remedy performance, and is transferable with a property transaction.

Groundwater use restriction in effect as part of the Declaration of Covenants and Restrictions with Seneca County for the OU-1 site area groundwater. Addition of groundwater use restrictions for the OU-2 area currently underway. A groundwater use restriction on the SMI owned and affected parcels for the OU-2 groundwater plume area (wholly on SMI property) is pending.

A modification to the existing Declaration of Covenants and Restrictions filed at the Seneca County Clerk's office is expected to be completed within six months (June 2010), subject to the processing time required by the County Clerk's office. An addendum to the Periodic Review Report, providing the certified Institutional and Engineering Controls Certification Form, will be submitted to the Department within 45 days of confirmation by the County Clerk that the updated Declaration of Covenants and Restrictions has been recorded.

Description of Engineering Controls

Parcel

30-1-03

Engineering Control

Subsurface Barriers
Fencing/Access Control
Cover System
Leachate Collection

A leachate collection system to collect leachate from the waste mass and overburden adjacent to the landfill; Installation of a multi-layer soil and synthetic membrane cap with an appropriate gas-venting layer; and Treatment of collected leachate/contaminated overburden groundwater/landfill gases.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 850004

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I KYLE BLACK at SENECA MEADOWS INC.
print name print business address 1786 SALCMAN ROAD WATERLOO NY
13165

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

[Signature]
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

9-17-25
Date

EC CERTIFICATIONS

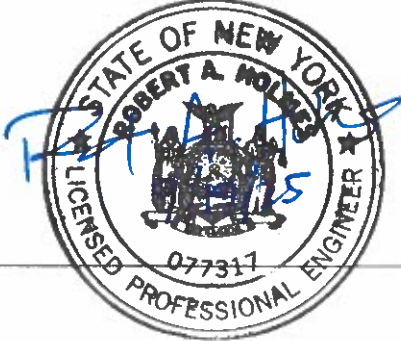
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert Holmes at 3136 South Winton Rd. Suite 303, Rochester, NY
print name print business address 14623

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)



9/19/25

Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date